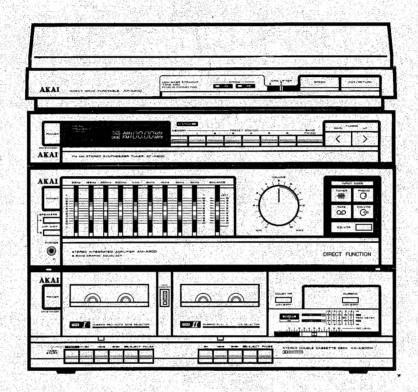
# AKAI SERVICE MANUAL



# **PRO-A200D/A200WD**

COMPATIBLE TURNTABLE
MODEL AP-A100/C,A200/C

**TUNER** 

MODEL AT-A200/L

**AMPLIFIER** 

MODEL AM-A200

CASSETTE DECKS
MODEL HX-A200, A300W



# PRO-A200D/A200WD

MODEL AP-A100/C, AP-A200/C, AT-A200/L, AM-A200, HX-A200, HX-A300W

SECTION 1	MODEL AP-A100/C SERVICE MANUAL
SECTION 2	MODEL AP-A200/C SERVICE MANUAL
SECTION 3	MODEL AT-A200/L SERVICE MANUAL
SECTION 4	MODEL AM-A200 SERVICE MANUAL
<b>SECTION 5</b>	MODEL HX-A200 SERVICE MANUAL
SECTION 6	MODEL HX-A300W SERVICE MANUAL
SECTION 7	PARTS LIST (AP-A100/C, AP-A200/C, AT-A200/L,
	AM-A200, HX-A200, HX-A300W) 43

### SAFETY INSTRUCTIONS

#### SAFETY CHECK AFTER SERVICING

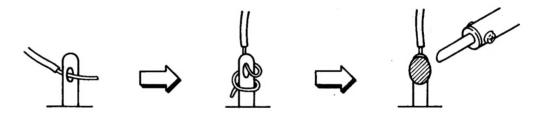
Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for  $\boxed{\mathbb{C}}$  or  $\boxed{\mathbb{A}}$ , specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks. line-in-out jacks etc.)

#### PRECAUTIONS DURING SERVICING

- 1. Parts identified by the  $\triangle$  symbol parts are critical for safety. Replace only with parts number specified.
- 2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specified replacements.

Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.

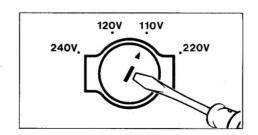
- 3. Use specified internal wiring. Note especially:
  - 1) Wires covered with PVC tubing
  - 2) Double insulated wires
  - 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
  - 1) Insulation Tape
  - 2) PVC tubing
  - 3) Spacers (Insulating Barriers)
  - 4) Insulation sheets for transistors
  - 5) Plastic screws for fixing microswitch (especially in turntable)
- 5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



- 6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
- 7. Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- 9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

#### VOLTAGE CONVERSION

Models for Canada, Europe, UK and Australia are not equipped with this facility. Each machine is preset at the factory according to destination, but some machines can be set to 110V, 120V, 220V or 240V as required. If your machine's voltage can be converted: Turn the voltage selector, located on the AM-A200 Amplifier's back panel, with a screwdriver until the correct voltage is indicated.



### INTRODUCING THE AKAI PRO-200 SERIES COMPONENTS

The PRO-A200 components are microcomputer controlled for easy (Direct Function) operation and convenient recording. The direct connection plugs on the Tuner, Amplifier, and Cassette deck sections make connection simple. The PRO-A200 components will provide you with years of high quality Hi-Fi, for your listening pleasure.

### 1. PRO-A200 SERIES LINE-UP

	PRO-A200	PRO-A200D	PRO-A200W	PRO-A200WD	
Turntable	AP-A100/C	AP-A200/C	AP-A100/C	AP-A200/C	
Tuner	AT-A200/L				
Amplifier		AM-A	1200		
Cassette Deck	HX	-A200	HX-A	300W	

### 2. FEATURES

#### 1) AP-A100/C

- Semi automatic player system
  - Set the record speed, then use the damped cue control arm to lift and lower the tone arm. The Akai AP-A100 will automatically locate the end of each record and return to the tone arm rest when the selection is finished. If you want to lift the tone arm from one section and start another, the tone arm Cue Control Damper eliminates the possibility of accidental scratches to your records.
- Low resonant cabinet which helps prevent distortion
- Sensitive straight tone arm
- TAP type plug in cartridge (AP-A100C only)
- DIRECT FUNCTION control makes playback and recording operations simple, when combined with the Akai AC-A100/L.

### 2) AP-A200/C

- Low mass straight tone arm
- Low resonant cabinet which helps prevent distortion
- Semi automatic Direct Drive player system
   Set the record speed, then use the damped cue
   control arm to lift and lower the tone arm. The
   Akai AP-A200 will automatically locate the end of
   each record and return to the tone arm rest when
   the selection is finished. If you want to lift the
   tone arm from one section and start another, the
   tone arm Cue Control Damper eliminates the
   possibility of accidental scratches to your records.
- TAP type plug in cartridge (AP-A200C only)
- DIRECT FUNCTION control makes playback and recording operations simple, when combined with the Akai PRO-A200.

#### 3) AT-A200/L

- Microcomputer controlled Tuner for accurate tuning.
- Up to 12 stations can be memorized (6 AM band, and 6 FM band)
- FL digital display panel

#### 4) AM-A200

Features of the AM-A200 Stereo Integrated Amplifier

- Nine band graphic equalizer for adjusting the sound to suit your taste, can be used during playback and recording operations.
- DIRECT FUNCTION control automatically activates the tuner, tape deck and Phono.
- BALANCE control and large VOLUME control
  dial
- CD/VTR input mode selector button for use when you want to playback another audio component connected to the rear panel CD/VTR jacks

### 5) HX-A200

- Direct Function recording with the tuner, phono, or other connected audio component
- Automatic Recording Level Control (ALC) for convenient recording.
- DOLBY NR (B) switch for use of the Dolby Noise Reduction System
- Full auto stop, the tape will automatically stop during all tape functions, when the end of the tape is reached.
- One touch recording button for easy recording
- Timer (optional) can be used for Timed Playback or Absentee Recording purposes.

#### 6) HX-A300W

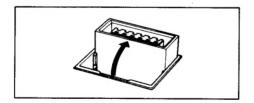
- Double cassette deck for convenient tape to tape dubbing.
- Direct Function recording with the tuner, phono, or other connected audio component.
- Auto Tape Selector for correct setting of the bias and equalization for NORMAL and CrO<sub>2</sub>(Chrome) tapes.
- DOLBY NR (B) switch for use of the Dolby Noise Reduction System
- Full auto stop, the tape will automatically stop during all tape functions, when the end of the tape is reached.
- One touch recording button for easy recording
- Timer (optional) can be used for Timed Playback or Absentee Recording purposes.

#### 3. THE DIRECT CONNECTION PLUGS

The PRO-A200 series Amplifier AM-A200, Tuner AT-A200 and Cassette Deck HX-A200 or HX-A300W feature the convenient Direct Connection Plugs.

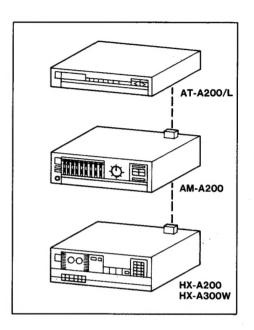
The Direct Connection Plugs of the PRO-A200 series make assembly of your components quick and easy.

- Raise the direct connection plug located on the top panel of the AM-A200 Amplifier. Once in the vertical position, push it down gently, and it will lock into position.
- 2. Set the AT-A200 Tuner on top of the AM-A200 Amplifier so that the connection plug is inserted into the socket on the bottom of the AT-A200.
  - Follow the same instructions for connection of your Akai compatible HX-A200 or HX-A300W Stereo Cassette Deck.



# 4. PLACEMENT OF THE PRO-A200 COMPONENTS

Connect components only in the order illustrated. If the components are not properly connected, the DIRECT FUNCTION control cannot function.



### 5. THE DIRECT FUNCTION CONTROL

The DIRECT FUNCTION control automatically activates the PRO-A200 series tuner, tape deck, and phono without having to use a source switch of any kind.

When you turn ON the POWER switch of the AM-A200, the microcomputer automatically selects TUNER and the last station which was tuned in on your AT-A200's AM or FM band will be turned in.

- To activate the tape deck, for example, just press the Play (▶) button and the source will switch to tape playback.
- The Turntable functions when the tone arm is lifted.
- To operate equipment which is connected to the rear panel CD/VTR jacks, depress the CD/VTR switch to ON (♠), then press that component's Play (▶) button.



### **SECTION 1**

# **SERVICE MANUAL**

# MODEL AP-A100/C

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For basic adjustments, measurnig methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

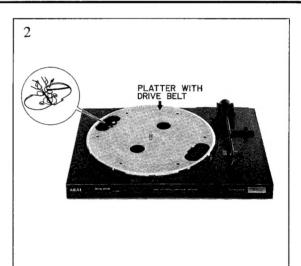
### I. SPECIFICATIONS

TURNTABLE (PLATTER)	Aluminum alloy diecast
DRIVE SYSTEM	Direct drive
MOTOR	FG servo DC motor
SPEED	33-1/3 & 45rpm
WOW & FLUTTER	0.045% (WRMS)
RUMBLE	70dB (DIN-B)
TONE ARM	Static balanced type
EFFECTIVE ARM LENGTH	220mm
STYLUS PRESSURE ADJUSTMENT RANGE	1.25g (fixed)
APPLICABLE CARTRIDGE WEIGHT	5.9g
ARM LIFTER	Oil damped
OVER HANG	17.5mm
CARTRIDGE (AP-A100/C only)	VM type (PC-35/ Pp plug-in type)
OUTPUT VOLTAGE	2.5mV
CHANNEL SEPARATION	More than 20dB
OPTIMAL STYLUS PRESSURE	1.25g
DIMENSIONS	$440(W) \times 99(H) \times 347(D)mm$
	$(17.3 \times 3.9 \times 13.7 \text{ inches})$
WEIGHT	3.2kg (7.1 lbs)

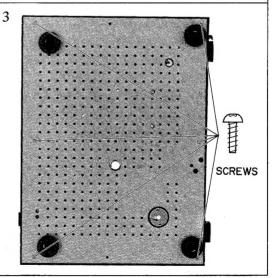
<sup>\*</sup> For improvement purposes, specifications and design are subject to change without notice.

### II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.







# III. CONTROLS

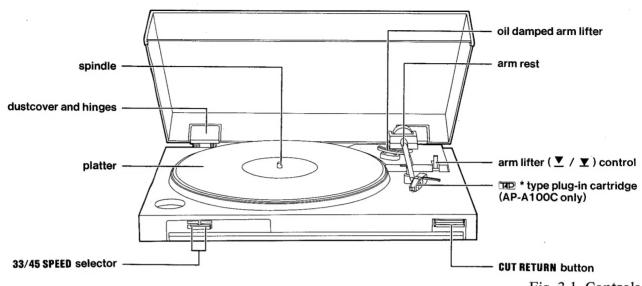


Fig. 3-1 Controls

# IV. PRINCIPAL PARTS LOCATION

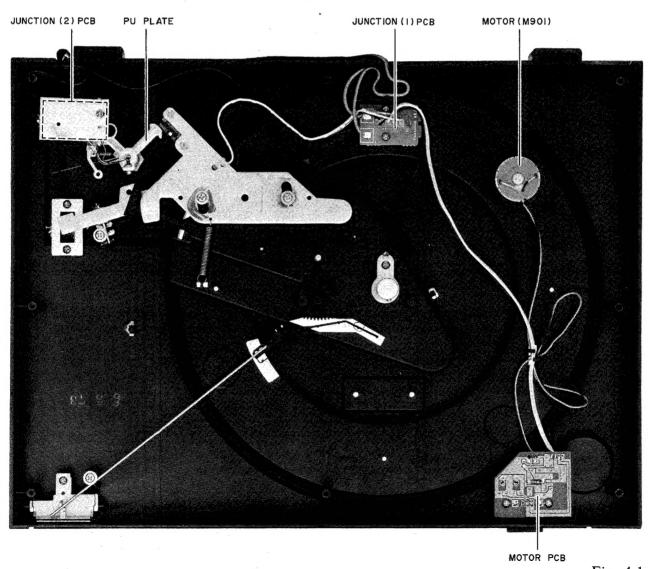


Fig. 4-1

### V. REPLACEMENT OF CARTRIDGE AND TONE ARM ASSEMBLY

# 5-1. HOW TO CHANGE OR INSTALL THE CARTRIDGE (Refer to Fig. 5-1)

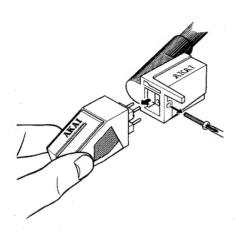


Fig. 5-1

With the tone arm on the tone arm rest and clamped, remove the screw on the side of the tone arm (directly behind the cartridge) by using a screwdriver. After removing the screw, grasp the cartridge firmly and pull it forward, away from the tone arm, until it is free.

Replace the new cartridge by reversing the above operation.

In order to enjoy the full capability of the Akai AP-A100 please note the following when changing the cartridge.

- \* Repace the cartridge with one which has the same output voltage (2.5mV/1kHz, 5cm/sec peak).
- \* IP is the standard mark for plug-in connectors.

  Connectors with this mark are compatible with each other. The Akai AP-A100 is equipped with a high quality VM cartridge, but any cartridge with the IP mark can be used.
- \* Let's protect the records.

Do not touch the grooves when handling the record. Dirty grooves will produce distortions.

Store records standing in a well ventilated place, relatively free of dust.

\* Don't interrupt any movement.

Do not touch the tone arm or the platter and do not turn off the power under the following conditions:

- \* During record playback
- \* When the tone arm is moving automatically.
- \* When the platter is turning.
- \* Be sure.

The ARM LIFTER is in the down ( $\mathbf{x}$ ) position before attempting to clamp the tone arm to the tone arm rest.

# 5-2. HOW TO REPLACE THE TONE ARM ASSEMBLY (Refer to Fig. 5-2 to 5-3)

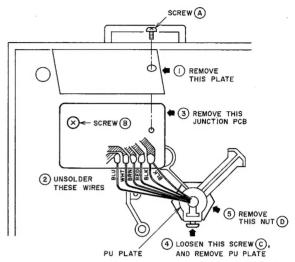


Fig. 5-2

- 1) Unscrew (A) and remove the shield plate.
- 2) Remove the wires from Tone Arm Assembly.
- 3) Unscrew (B) and remove the JUNC TION (2) PCB.
- 4) Loosen screw (C) and remove the PU lever.
- 5) Unscrew the Nut (D) and Remove the Tone Arm Assembly.
- 6) Install the New Tone Arm Assembly and do the reverse way.

After replaced the Tone Arm, PU plate position Adjustment is necessary as follow.

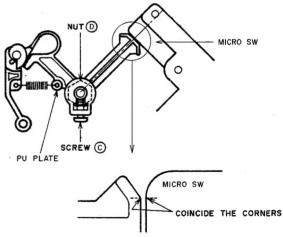
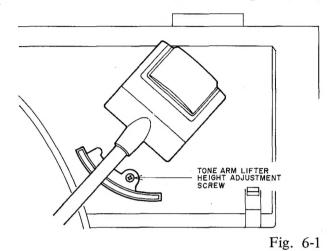


Fig. 5-3

- 1) Lock the Tone Arm on the TONE ARM REST.
- 2) Loosen the Screw  $\bigcirc$ , and Confirm that the PU PLATE is installed all the way into the Nut  $\bigcirc$ .
- 3) May loosen the screw  $\bigcirc$  a little and turn PU PLATE so that the corner of those PU PLATE and Micro SW are coincide as shown Fig. 5-3.
- 4) Tighten screw (C).
- 5) Next excute an AUTO RETURN operation and confirm that the AUTO RETURN position is proper. Do the fine adjustment in item 6-2 AUTO-RETURN ADJUSTMENT if necessary.
- 6) Paint lock the screw (C) after the adjustment.

### **MECHANICAL ADJUSTMENT**

### 6-1. TONE ARM LIFTER HEIGHT ADJUSTMENT (Refer to Fig. 6-1, 6-2)



### 6-2. AUTO-RETURN ADJUSTMENT (Refer to Fig. 6-3)

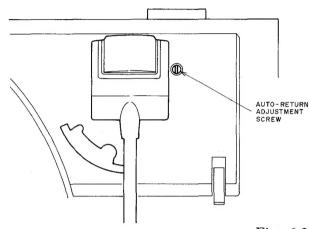
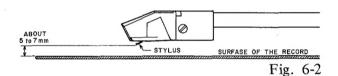


Fig. 6-3



With the Tone Arm in the up-position, the stylus should be about 6mm above the surface of the record.

If it is not, adjust the height by adjusting the TONE ARM HEIGHT ADJUSTMENT SCREW.

Clockwise:

Down

Counterclockwise: Up

If the Tone Arm does not return automatically to the TONE ARM REST at the end of record.

Adjust auto-return Adjustment screw as follow.

- If the tone arm return before the end of the record Turn the Auto-Return Adjustment Screw Clockwise.
- If the tone arm does not return at the end of record Turn the Auto-Return Adjustment Screw Counterclockwise.

### CAUTION:

Do not turn the Auto-Return Adjustment screw too much.

# VII. ELECTRICAL ADJUSTMENT

### 7-1. SPEED ADJUSTMENT

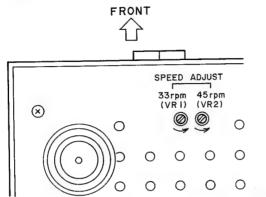


Fig. 7-1 Speed Adjustment Points

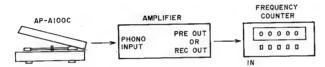


Fig. 7-2 Instruments Connection

- 1) Connect a Amplifier and Frequency counter as shown Fig. 6-2.
- 2) Set the Speed Selector to 33-1/3rpm.
- 3) Play back the Test Record (1000Hz, 33-1/3rpm), and Adjust VR1 so that the speed is 1000±10Hz.
- 4) Set the speed Selector to 45rpm.
- 5) Play back the Test Record (1000Hz, 45rpm), and adjust VR2 so that the speed is 1000±10Hz.

### NOTE:

This Speed Adjustment should be adjust 33-1/3rpm position first then adjust 45rpm next.

# VII. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

PC BOARD TITLE		PC BOARD NUMBER	REMARKS
MOTOR	PC BOARD	G-80	1
JUNCTION (	1) PC BOARD	P1047D501A	
JUNCTION (	2) PC BOARD	P1047D501B	



### **SECTION 2**

# **SERVICE MANUAL**

# MODEL AP-A200/C

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

### I. SPECIFICATIONS

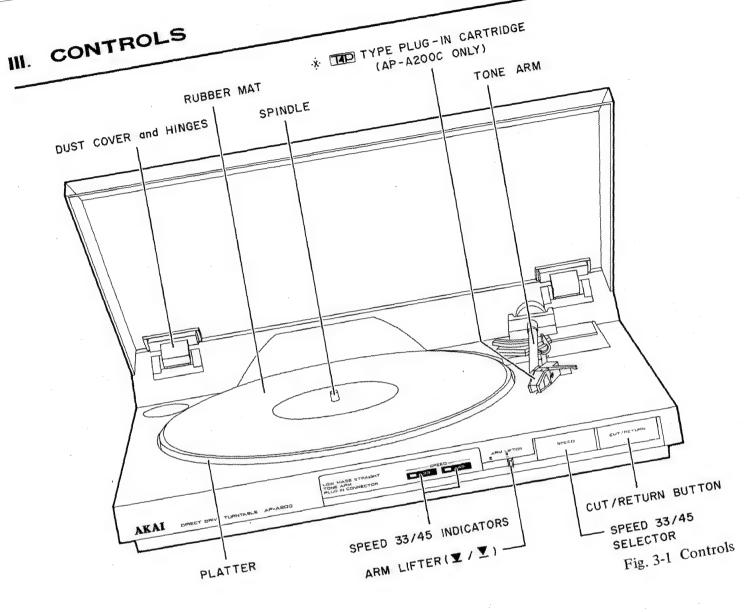
TURNTABLE (PLATTER)	Aluminum alloy dicast
DRIVE SYSTEM	Direct Drive Semi-automatic
MOTOR	FG Servo DC motor
SPEED	33-1/3 & 45 rpm
WOW & FLUTTER	0.045% (WRMS)
RUMBLE	70dB (DIN-B)
TONE ARM	Static balanced type
EFFECTIVE ARM LENGTH	220mm
STYLUS PRESSURE ADJUSTMENT	Oil damped
STYLUS RANGE ADJUSTMENT	1.25g (Final)
APPLICABLE CARTRIDGE WEIGHT	( Plug in Type)
CARTRIDGE (AP-200C only)	VM type (PC-35/TIP) Plug in Type)
OUTPUT VOLTAGE	2.5mV
CHANNEL SEPARATION	More than 20dB
OPTIMAL STYLUS PRESSURE	1.25g
DIMENSIONS	$440(W) \times 346.5(D) \times 94(H) \text{ mm}$
	$(17.3 \times 13.6 \times 3.7 \text{ inches})$
WEIGHT	3.2kg (7.0 lbs)

<sup>\*</sup> For improvement purposes, specifications and design are subject to change without notice.

# II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.





### IV. PRINCIPAL PARTS LOCATION

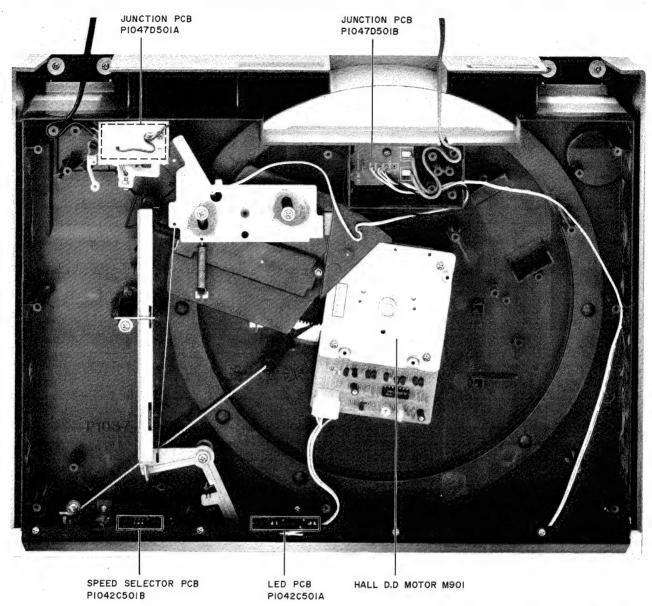


Fig. 4-1 Bottom Side View

# V. HOW TO CHANGE OR INSTALL THE CARTRIDGE

With the tone arm on the tone arm rest and clamped, remove the screw on the side of the tone arm-directly behind the cartridge-by using a screwdriver.

After removing the screw, grasp the cartridge firmly and pull it forward, away from the tone arm, until it is free. Replace the new cartridge by reversing the above operation.

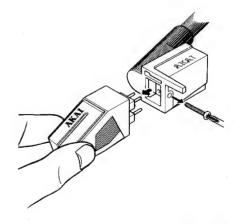


Fig. 5-1

### MECHANICAL ADJUSTMENT

#### 6-1. TONE ARM HEIGHT ADJUSTMENT

\* WHEN AUTO-CUT (Auto-Return) MODE (Refer to Figs. 6-1 and 6-2).

Set the play mode, and push the Cut Button. While returning the Tone Arm, comfirm the height of the Tone Arm, so that the height are 0.5 to 1.0 mm from flat face of Tone Arm Rest.

If the height is without 0.5 to 1.0 mm, adjust Tone Arm Lifter Height Adjustment screw.

Counterclockwise: Up Clockwise:

Down

### 6-2. AUTO-RETURN ADJUSTMENT (Refer to Fig. 6-1)

If the Tone Arm does not return automatically to the Tone Arm Rest at the end of the playback, or does so during playback:

- 1) Leave the Power Cord connected.
- 2) Adjust the Auto-Return Adjustment Screw.

Turn clockwise:

If the Tone Arm returns before the end of record.

Turn counterclockwise:

If the Tone Arm does not return at the end of record.

\* Do not turn the screw counterclockwise too much.

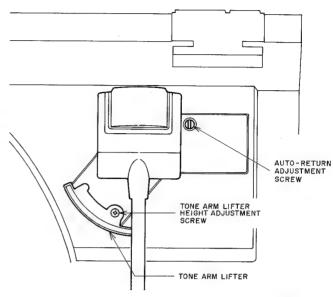
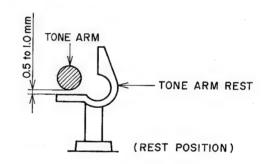


Fig. 6-1



### 6-3. RETURN ARM POSITION ADJUSTMENT (Refer to Figs. 6-3 & 6-4)

Fig. 6-2

After, replaced the Tone Arm, PU LEVER position Adjustment is necessary as follow.

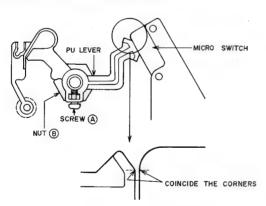


Fig. 6-3

- 1) Lock the Tone Arm on the ARM REST.
- 2) Loosen the Screw A, and confirm that the PU LEVER is installed all the way in the Nut B.
- 3) Turn the PU LEVER so that the corner of those PU LEVER and Micro switch are coincide as shown in Fig. 6-3.
- 4) Tighten the Screw A.
- 5) Move the Tone Arm to the spindle side, and confirm that micro switch is switched "ON" at about center between Tone Arm Rest position and platter as shown in Fig. 6-4.

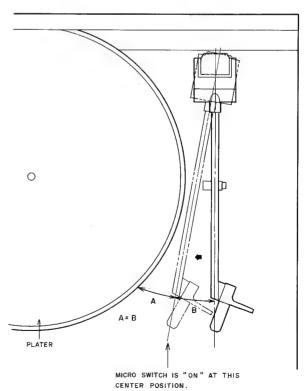
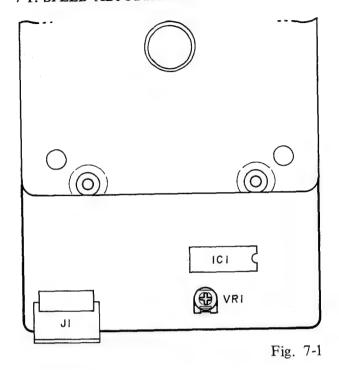


Fig. 6-4

# VII. ELECTRICAL ADJUSTMENT

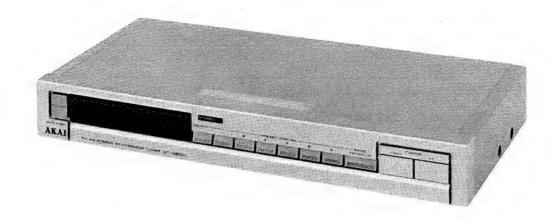
### 7-1. SPEED ADJUSTMENT



- 1) Set the Speed Selector to 33-1/3rpm.
- 2) Playback the Test Record (33-1/3rpm, 1000Hz).
- 3) Adjust VR1 (10kohms) so that the speed is 1000 ±10Hz.
- 4) Set the Speed Selector to 45rpm.
- 5) Playback the Test Record (45rpm, 1000Hz).
- 6) Confirm that the Speed is 1000±10Hz.

# VIII. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

			DEMADIC
PC BOARD TITLE		PC BOARD NUMBER	REMARKS
LED	PC BOARD	P1042C501A	
SPEED SELECTO	R PC BOARD	P1042C501B	
JUNCTION (A)	PC BOARD	P1047D501A	
JUNCTION (B)	PC BOARD	P1047D501B	



# SECTION 3

# SERVICE MANUAL

# MODEL AT-A200/L

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

# I. SPECIFICATIONS

FM TUNER SECTION	
TUNING FREQUENCY RANGE	87.5MHz to 108.0MHz
USABLE SENSITIVITY (300ohms)	12.7dBf
QUIETING SENSITIVITY (S/N=50dB)	19.2dBf (Mono)/40.2dBf (Stereo)
CAPTURE RATIO	2.0dB
SELECTIVITY (400kHz)	60dB
IMAGE REJECTION	50dB
IF REJECTION	80dB
SPURIOUS REJECTION	80dB
AM SUPPRESSION	50dB
SUB CARRIER SUPPRESSION	55dB
S/N (IHF)	70dB (Mono)/60dB (Stereo)
T.H.D.	0.2% (Mono)/0.4% (Stereo)
STEREO SEPARATION (1kHz)	40dB
FREQUENCY RESPONSE	30Ha to 15kHz ±1.0dB

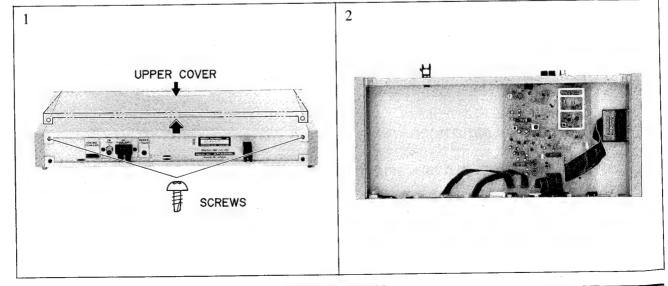
# AM TUNER SECTION (MW & LW FOR AT-A200L)

TUNING FREQUENCY RANGE	AM tuner section	LW tuner section	
USA & CANADA	530kHz to 1,610kHz	_	
OTHER COUNTRIES	531kHz to 1,602kHz	146kHz to 353kHz	
USABLE SENSITIVITY (LOOP ANTENNA)	300uV/m	800uV/m	
SELECTIVITY	30dB	40dB	
IMAGE REJECTION	45dB	45dB	
IF REJECTION	35dB	35dB	
S/N	40dB	35dB	
T.H.D.	1.0%	2.0%	
OUTPUT SECTION			
OUTPUT LEVEL FM	700mV (100% Mod.)		
AM (MW FOR AT-A200L)	250mV (30% Mod.)		
DIMENSIONS	$440(W) \times 66(H) \times 210(D) \text{ mm}$		
	$(17.3 \times 2.6 \times 8.3 \text{ inches})$		
WEIGHT	1.6kg (3.5 lbs)		

<sup>\*</sup> For improvement purposes, specifications and design are subject to change without noitce.

# II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the phogographs. Reassemble in reverse order.



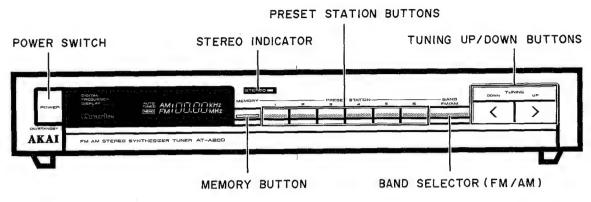


Fig. 3-1 Control

# IV. PRINCIPAL PARTS LOCATION

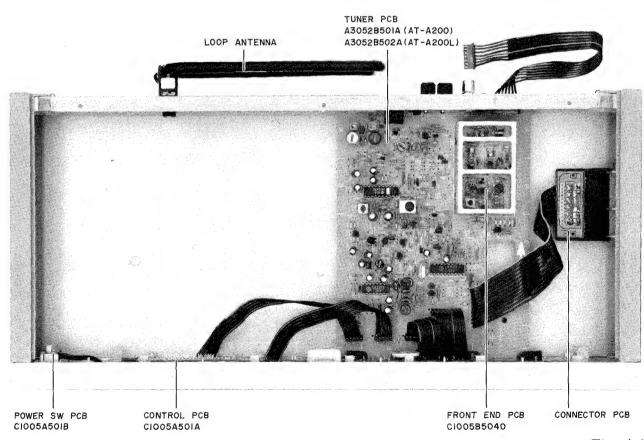


Fig. 4-1

### V. ELECTRICAL ADJUSTMENT

### 5-1. INSTRUMENT CONNECTIONS FOR TUNER ADJUSTMENT

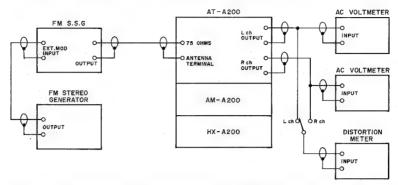


Fig. 5-1 Instrument Connections for FM Section Adjustment

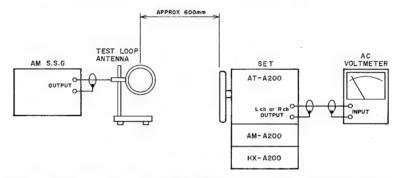


Fig. 5-2 Instrument Connections for AM (MW, LW) Section Adjustment

### 5-2. TUNER PCB ADJUSTMENT POINT

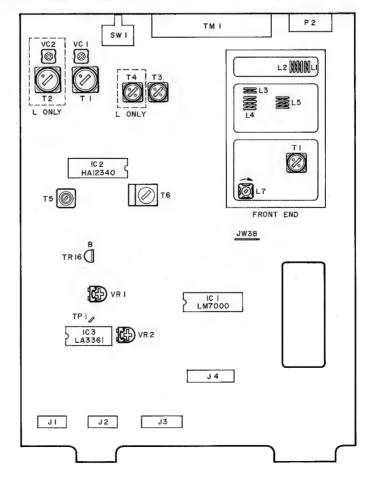


Fig. 5-3 Tuner PCB (Parts Side View)

### 5-3. FM SECTION ADJUSTMENTS

NOTE: 1. Set the S.S.G to 1kHz, 75kHz diviation for [U, C, A, S] 40kHz diviation for [B, E, V].

2. Set the Band Switch to FM.

3. (MHz) indicate for B, E, V model.

4.  $\hat{O}dBu = 1uV$ 

Step	Adjustment	S.S.G.	SET	Adjustment	Result	Remarks
Step	Item	Freq./ATT	Tuning	Parts	Result	Remarks
1	FM OSC		87.5MHz	L7 (Front End)	3.5±0.05V	1) Connect a Digital Volt Meter between JW38 and GND.
2	Low Range Sensitivity	88MHz 10dBu (MONO)	88MHz	L2,L4,L5 (Front End)	Less than 3% Distortion	Connect a wire between Base of TR16 and GND.     (Mute OFF)
3	High Sensitivity	108MHz 10dBu (MONO)	108 <b>M</b> Hz	L2,L4,L5 (Front End)	Less than 3% Distortion	1) Connect a wire between Base of TR16 and GND. (Mute OFF)
4	For best Resi	ılt, Repeat stej	os 2 and 3 to	wo or three tim	es.	
5	Distortion (MONO)	88MHz 60dBu (MONO)	88 <b>M</b> Hz	<b>T</b> 5	Less than 1% Distortion	
6	MPX Free Running Frequency	_	_	VR1	19kHz±50Hz	Connect a Frequency counter between TP1 and GND.
7	Distortion (Stereo)	98MHz 60dBu Stereo Lch (Rch)	98 <b>MHz</b> (100MHz)	T 1 (Front End)	Less than 1% Distortion	See Note 3
8	Stereo Separation	98MHz 60dBu Stereo Lch (Rch)	98MHz	VR2	More than 35dBm Minimum Output of Rch (Lch)	

# 5-4. LW SECTION ADJUSTMENTS (AT-A200L ONLY)

NOTE: 1) Set the S.S.G. to 1kHz 30% modulation.

Step	Adjustment	S.S.G.	SET	Adjustment	Result	Remarks	
	Item	Freq./ATT	Tuning	Parts			
1	LW OSC	_	300kHz	T4	5.82±0.05V	1) Connect a Digital Volt Meter between JW38 and GND.	
2	Low Range Sensitivity	160kHz 65dBu	160kHz	T2,T6	Less than 10% Distortion		
3	High Range Sensitivity	300kHz 65dBu	300kHz	VC2	Less than 10% Distortion		
4	For best Result, Repeat steps 2 and 3 two or three times.						
5	Distortion Confirmation	200kHz 74dBu	200kHz	None	Less than 3% Distortion		

### 5-5. AM (MW) SECTION ADJUSTMENT

NOTE: 1) Set the S.S.G. to 1kHz 30% modulation.

2) ( kHz) in S.S.G. frequency and set tuning indicates the Test Frequency in AM 9kHz STEP Area.

### AM (MW)

Step	Adjustment	S.S.G.	SET	Adjustment	Result	Remarks
ыср	Item	Freq./ATT	Tuning	Parts	Result	Remarks
1	AM (MW) OSC	_	1400kHz (1404kHz)	Т3	6.7±0.1V	1) Connect a Digital Volt Meter between JW38 and GND.
2	Low Range Sensitivity	600kHz (603kHz) 60dBu	600kHz (603kHz)	T1,T6	Less than 10% Distortion	
3	High Range Sensitivity	1400kHz (1404kHz) 60dbu	1400kHz (1404kHz)	VC1	Less than 10% Distortion	
4	For best Result, Repeat steps 2 and 3 two or three times.					
5	Distortion (Confirmation)	1000kHz (999kHz) 74dBu	1400kHz (999kHz)	None	Less than 2% Distortion	

# VI. PC BOARD TITLES AND IDENTIFICATION NUMBERS

PC BOAR	D TITLE	PC BOARD NUMBER	REMARK
TUNER	PC BOARD	A3052B501A	AT-A200
TUNER	PC OBARD	A3052B502A	AT-A200L
CONNECTOR	PC BOARD	A3052B502B	
CONTROL	PC BOARD	C1005A501A	
POWER SW	PC BOARD	C1005A501B	
FRONT END	PC BOARD	C1005B5040	



# SECTION 4

# SERVICE MANUAL

# MODEL AM-A200

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For MAN	basic adjustments, measuring methods, and operating principles; refer to GENERAL TECHNIC	CAL

### I. SPECIFICATIONS

### POWER AMPLIFIER SECTION

	80hms
RATED POWER OUTPUT 40Hz to 20kHz	35W/0.3%
POWER OUTPUT (BY FTC) 20Hz to 20kHz	35W/0.3%
FRENCH NORMAL (80hms) 63Hz to 12.5kHz	40W/0.7%
DIN 1kHz	40W/0.7%
MUSIC POWER (BOTH CHANNELS)	180W
POWER BANDWIDTH (IHF -3dB, 80hms)	10Hz to 40kHz (0.5%)
S/N (IHF-A) PHONO	70dB
AUX	90dB
RESIDUAL NOISE (80hms)	0.5mV
CHANNEL SEPARATION (IHF, 1kHz)	50dB
DAMPING FACTOR (1kHz, 8ohms)	30
REQUIRED SPEAKER IMPEDANCE	A or B 8 to 16ohms
	A and B 8 to 160hms

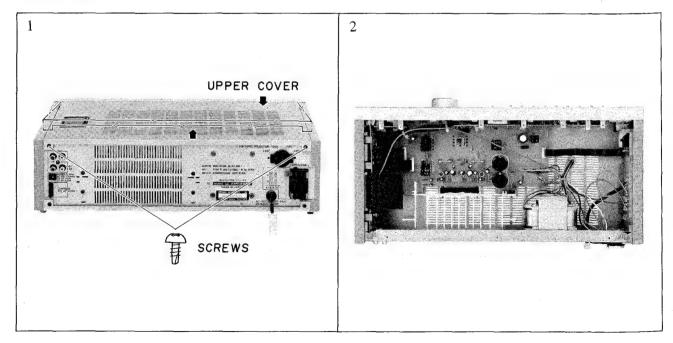
### PRE AMPLIFIER SECTION

INPUT SENSITIVITY/IMPEDANCE	PHONO	2.0mV/47kohms
<u> </u>	CD/VTR	250mV/47kohms
FREQUENCY RESPONSE		
PHONO (RIAA DEVIATION)		±0.5dB
TUNER, AUX, TAPE		5Hz to 100kHz (-3dB)
GRAPHIC EQUALIZER		
TYPE		9 bands
CENTER FREQUENCY		63Hz/125Hz/250Hz/500Hz/1kHz/2kHz/4kHz 8kHz 16kHz
CONTROL RANGE		±10dB

<sup>\*</sup> For improvement purposes, specifications and design are subject to change without notice.

### II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.



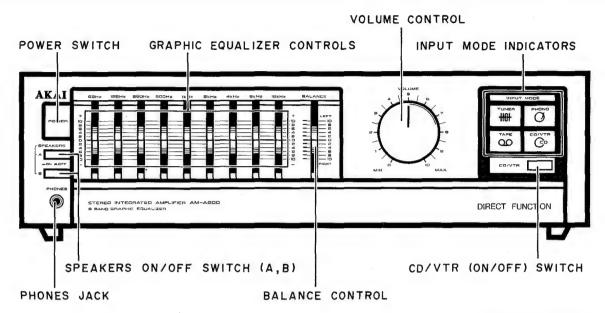


Fig. 3-1 Control

### IV. PRINCIPAL PARTS COCATION

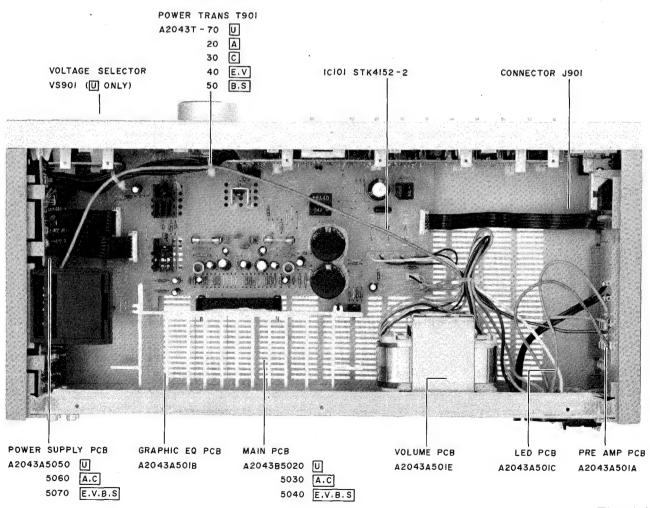


Fig. 4-1

### V. ADJUSTMENT

No Adjustment is neccessary for this model.

# VI. PC BOARD TITLES AND IDENTIFICAION NUMBERS

PC BOARD T	ITLE	PC BOARD NUMBER	REMARKS
MAIN	PC BOARD	A2043B5020	U
		5030	C, A
		5040	[E, V, B, S]
POWER SUPPLY	PC BOARD	A2043A5050	U
		5060	[A, C]
		5070	[E, V, B, S]
PRE AMP	PC BOARD	A2043A501A	
GRAPHIC EQ	PC BOARD	. 501B	
LED	PC BOARD	501C	
VOLUME	PC BOARD	501D	
CONNECTOR (A)	PC BOARD	501E	
CONNECTOR (B)	PC BOARD	501F	·



### **SECTION 5**

# **SERVICE MANUAL**

# MODEL HX-A200

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

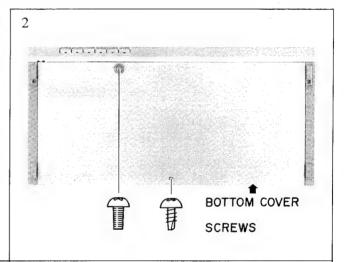
### I. SPECIFICATIONS

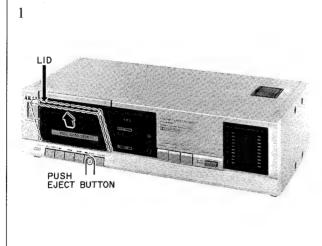
·
4 track 2 channel stereo
Phillips type cassette
HD head for recording and playback x1
Erase head ×1
Electronically speed controlled DC motor x1
0.05% WRMS (JIS), 0.12% (DIN)
30Hz to 15,000Hz ±3dB
30Hz to 16,000Hz ±3dB
30Hz to 17,000Hz ±3dB
56dB
Dolby NR switch ON: improves up to 5dB at 1kHz, 10dB above
5kHz
Less than 0.7%
440(W) × 115(H) × 210(D) mm
$(17.3 \times 4.5 \times 8.3 \text{ inches})$
2.7kg (6.0 lbs)

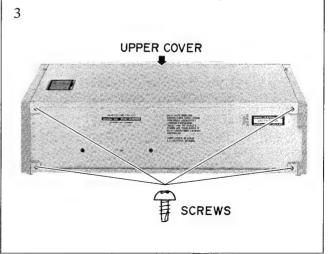
- \* For improvement purposes, specifications and design are subject to change without notice.
- \* Noise Reduction manufactured under license from Dolby Laboratories Licensing corporation. "Dolby" and the double-D Symbol are trade marks of Dolby Laboratories Licensing Corporation.

### II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.







### III. CONTROLS

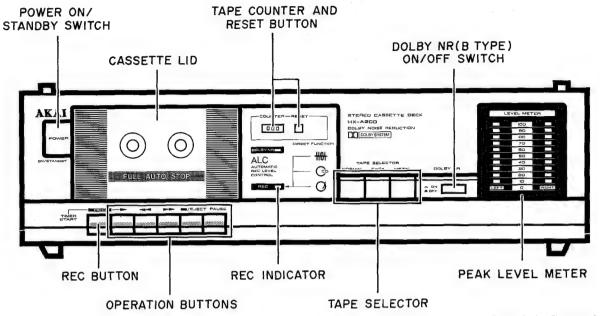


Fig. 3-1 Control

### IV. PRINCIPAL PARTS LOCATION

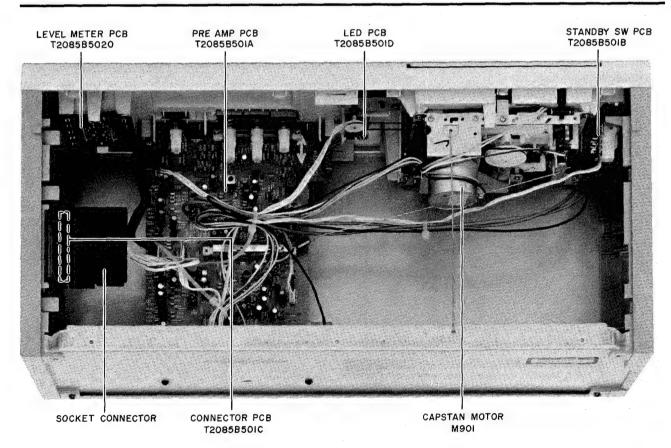


Fig. 4-1 Top View

### V. MECHANICAL ADJUSTMENT

### 5-1. PINCH ROLLER PRESSURE MEASURE-MENT

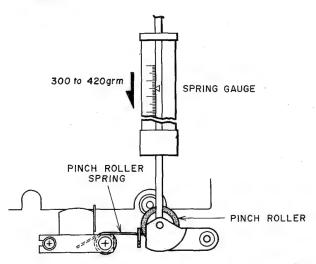


Fig. 5-1

Put in PLAY mode. Push pinch roller arm down with the spring gauge, push the pinch Roller 1 to 2 mm from the Capstan and release slowly.

Read the spring gauge at the moment the pinch roller touches the capstan and begins to rotate. Specified contact pressure measurement of 200 to 400 grm. If there is no measurement obtained, Adjust or Replace the pinch Roller spring.

# 5-2. WINDING TORQUE MEASUREMENT IN EACH MODE

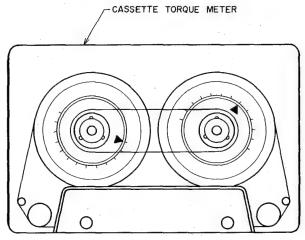


Fig. 5-2

Insert cassette torque meter (AJ-751179) and measure in each mode.

PLAY mode

Take up Torque: 35 to 75 grm-cm
Back tension torque: 1 to 6 grm-cm
FAST FORWARD, REWIND mode

Take up Torque:

80 to 140 grm-cm

### 5-3. TAPE SPEED ADJUSTMENT

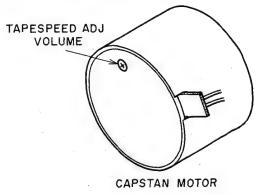


Fig. 5-3

Connect a frequency Counter to Line output terminals. Play Back a 3,150Hz Tape Speed Test Tape (AT-751263) and adjust a Tape Speed Adjustment Volume (see Fig. 5-3) to obtain a tape speed of 3,150  $\pm$ 30Hz.

### 5-4. REC/PB HEAD AZIMUTH ADJUSTMENT

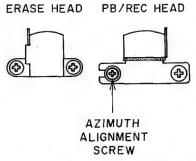
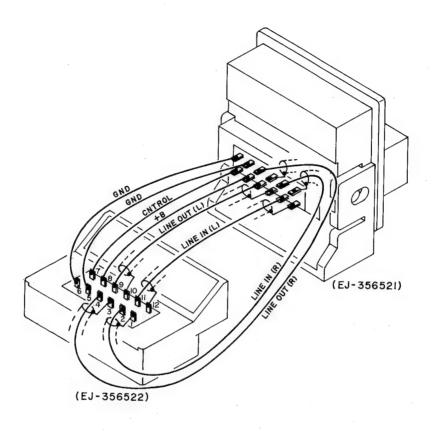
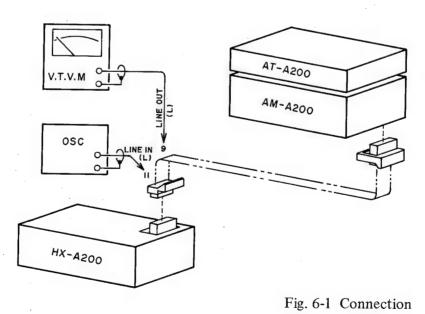


Fig. 5-4

Play back a 10kHz Azimuth Alignment tape (AT-750778) and adjust the Azimuth Alignment Screw, untill the output levels of both channels are maximum. After Adjustment, Paintlock the azimuth Alignment Screw.





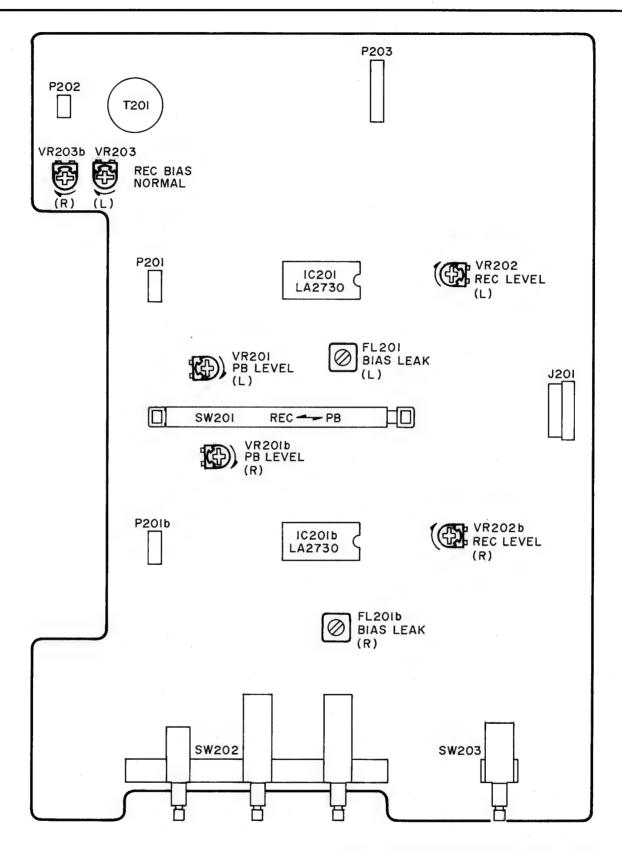


Fig. 6-2 Pre Amp PCB (Parts Side View)

Step	Adjustment Item	Input Signal or Test Tape	Mode	Adjustment Parts	Result	Remarks
1	PB LEVEL	315Hz	PB	VR201	-19.7±0.2dB	
2	NORMAL POSITION FREQUENCY RESPONSE	NORMAL Blank Tape 1kHz, 10kHz -39.7dBm	REC/ PB	VR203	1kHz, 10kHz -39.7±0.3dBm	
3	REC LEVEL	NORMAL Blank Tape 315Hz, -19.7dBm	REC/ PB	VR202	-19.7±0.2dBm	

NOTE: 1. All adjustments are without Dolby.
2. Use the following cassette measuring tapes:

NORMAL TAPE: Maxell UDI C-60 CrO<sub>2</sub> TAPE: TDK SA C-60 METAL TAPE : TDK MA C-60

# VII. PC BOARD TITLES AND IDENTIFICATION NUMBERS

PC BOARD TITLE		PC BOARD NUMBER	REMARKS
PRE AMP	PC BOARD	T2085B501A	
STANDBY SW	PC BOARD	T2085B501B	
CONNECTOR	PC BOARD	T2085B501C	
LED	PC BOARD	T2085B501D	
LEVEL METER	PC BOARD	T2085B5020	



### **SECTION 6**

# **SERVICE MANUAL**

# MODEL HX-A300W

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

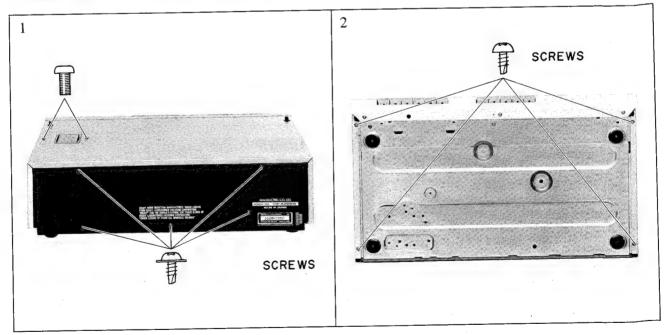
### I. SPECIFICATIONS

TRACK SYSTEM	4 track 2 channel stereo
TAPE	Phillips type cassette
HEADS	Tape I HD head for recording and playback xl
	Erase head ×1
	Tape II HD head for playback
MOTORS	Tape I Electronically speed controlled DC motor x1
	Tape II Electronically speed controlled DC motor x1
WOW & FLUTTER	0.05% WRMS (JIS), 0.12% (DIN)
FREQUENCY RESPONSE	Normal 30Hz to 15,000Hz ±3dB
	CrO <sub>2</sub> 30Hz to 16,000Hz ±3dB
S/N	56dB
	Dolby NR switch ON: Improves up to 5dB at 1kHz, 10dB above
	5kHz
HARMONIC DISTORTION	Less than 0.7%
DIMENSIONS	440(W) × 122(H) × 254(D) mm
DIMENSIONS	$(17.3 \times 4.8 \times 10.0 \text{ inches})$
WEIGHT	3.1kg (6.8lbs)

- \* For improvement purposes, specifications and design are subject to change without notice.
- \* Noise Reduction manufactured under license from Dolby Laboratories Licensing corporation. "Dolby" and the double-D Symbol are trade marks of Dolby Laboratories Licensing Corporation.

# II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.



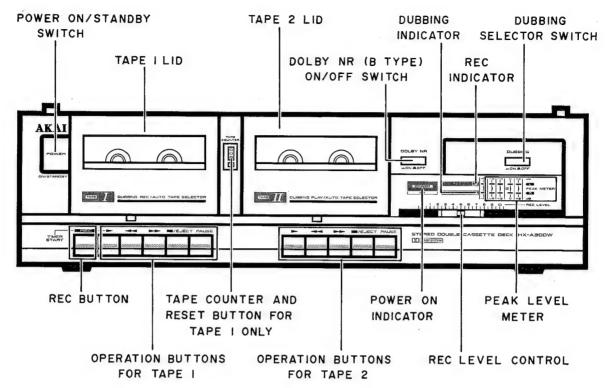


Fig. 3-1 Control

#### IV. PRINCIPAL PARTS LOCATION

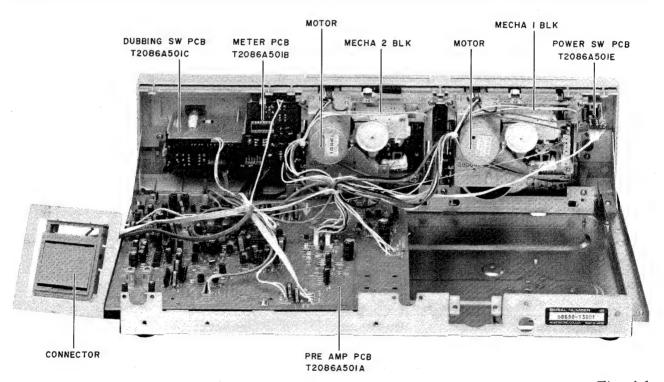


Fig. 4-1

# 5-1. PINCH ROLLER PRESSURE MEASUREMENT

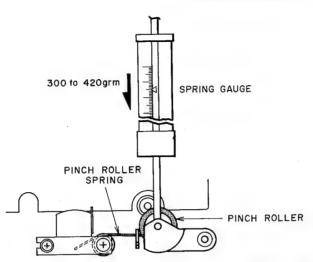


Fig. 5-1

Put in PLAY mode. Push pinch roller arm down with the spring gauge, push the pinch Roller 1 to 2 mm from the Capstan and release slowly. Read the spring gauge at the moment the pinch roller touches the capstan and begins to rotate. Specified contact pressure measurement of 300 to 550grm. If there is no measurement obtained, Adjust or Replace the pinch Roller spring.

# 5-2. WINDING TORQUE MEASUREMENT IN EACH MODE

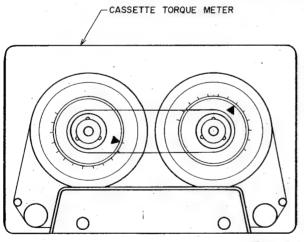


Fig. 5-2

Insert cassette torque meter (AJ-751179) and measure in each mode. For Fast Foward and Rewind, measure at the end of tape when the tape has stopped running. PLAY Mode

Take up Torque:

35 to 75 grm-cm

Back tension torque:

1 to 6 grm-cm

FAST FORWARD, REWIND mode

Take up Torque:

70 to 160 grm-cm

#### 5-3. REC/PB HEAD AZIMUTH ADJUSTMENT

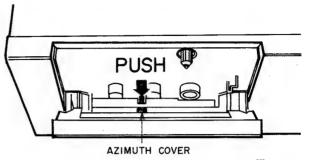


Fig. 5-3

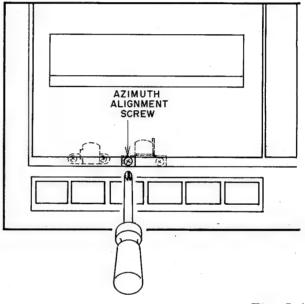


Fig. 5-4

Play Back a 10kHz Azimuth Alignment Tape (AT-750778) and Adjust the Azimuth Alignment Screw, until the output levels of both channels are maximum. After Adjustment, Paintlock the Azimuth Alignment Screw.

#### 5-4. TAPE SPEED ADJUSTMENT

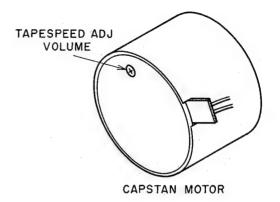
1. Connect a frequency counter to LINE OUT. (Refer to Fig. 4-2)

#### TAPE I Selection

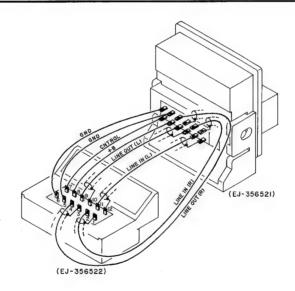
2. Playback a 3150Hz pre-recorded Test Tape (AT-751263) and adjust a Tape Speed adjustment volume (See Fig. 5-4) to obtain a tape speed of 3150Hz±30Hz.

#### TAPE II Selection

- 3. Playback a 3150Hz pre-recorded Test Tape (AT-751263) and adjust a Tape Speed adjustment volume (See Fig. 5-4) to obtain a tape speed of 3150Hz±30Hz.
- 4. Confirmation that speed deviation toward TAPE I is within ±20Hz.



#### VI. ELECTRICAL ADJUSTMENT



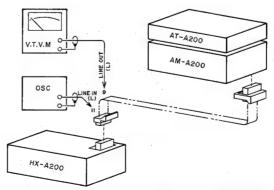


Fig. 6-1 Connection

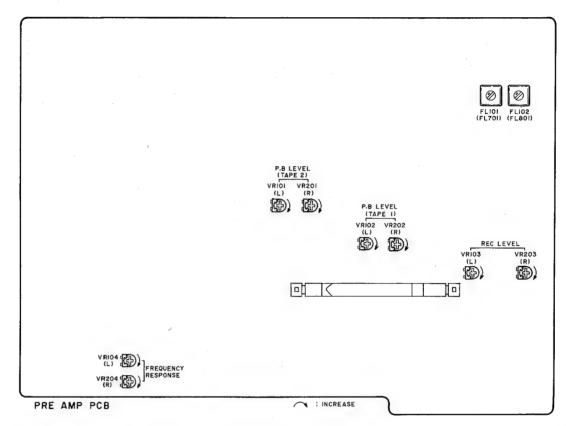


Fig. 6-2

#### MODEL HX-A300W

Step	Adjustment Item	Test Tape & Supply Signal	Mode	Adjustment Part	Result	Remarks
1	P.B LEVEL (TAPE I)	315Hz	P.B	VR102 (Lch) VR202 (Rch)	-19.7±0.5dBm	
2	P.B LEVEL (TAPE II)	315Hz	P.B	VR101 (Lch) VR201 (Rch)	-19.7±0.5dBm	
3	NORMAL POSITION FREQUENCY RESPONSE	NORMAL BLANK TAPE 1kHz, 10kHz -40.0dBm	REC/ P.B	VR104 (Lch) VR204 (Rch)	1kHz, 10kHz -40.0 0.5dBm	
4	REC LEVEL	NORMAL BLANK TAPE 315Hz -19.7dBm	REC/ P.B	VR103 (Lch) VR203 (Rch)	-19.7±0.5dBm	

NOTE: 1. All adjustment are without Dolby.

2. Use the following cassette mesuring tapes:

NORMAL TAPE : Maxell UDI C-60 CrO<sub>2</sub> TAPE : TDK SA C-60 METAL TAPE : TDK MA C-60

# VII. P.C BOARD TITLE AND IDENTIFICATION NUMBERS

PC BOARI	O TITLE	PC BOARD NUMBER	REMARKS
PRE AMP	PC BOARD	T2086A501A	
METER	PC BOARD	T2086A501B	-
DUBBING SW	PC BOARD	T2086A501C	
CONNECTOR	PC BOARD	T2086A501D	
POWER SW	PC BOARD	T2086A501E	

# SECTION 7 PARTS LIST

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#### ATTENTION

- 1. When placing an order for parts, be sure to list the parts no. model no., and description of each part. If any of this information is omitted, there are instances in which parts cannot be shipped or the wrong parts will be delivered.
- 2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
- 3. Because part numbers and part definitions and supply in the Preliminary Parts List may have been the subject of changes, please use this parts list for all future reference.

#### HOW TO USE THIS PARTS LIST

- 1. This Parts List shows those parts which are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts" from which these parts should be selected and parts.
- 2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
- 4. How to read the parts list
  - a) Mechanism Block

b) P.C Board Block

#### 2. HEAD BASE BLOCK

#### 6. SYS. CON. P C BOARD BLOCK

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
NO. 2-1x 2-2 2-3 2-4 2-5	BH-T2023A320A HP-H2206A010A ZS-477876 ZS-536488 ZG-402895 A small show th Illustrat: This nu dividual	HEAD BASE BLOCK GX-F66R HEAD R/P PR4-8FU C PAN20×03STL CMT BID20×08STL CMT CS ANGLE ADJUST SPRING rice Parts) Classification "x" indicates the inability to at particular part in the Photo or ion. The parts index number in that figure in the corresponds with the Figure—	NO. 6-1 6-IC1 6-IC2 6-IC3 6-IC4 6-TR1to4 6-TR5to28 6-D1 6-D2to4 6-D5to10 6-X1	BA-T2034A070A EI-324536 EI-336801 EI-331661 EI-336725 ET-200985 ET-554657 ED-318292 ED-308952 ED-318292 EI-318384  SP (Service	PC SYS CON BLK GX-F44R IC HD14049BP IC MB8841-564M IC SN7405N IC M54527P TR 2SC2603 F,G TR 2SA733A P,Q D SILICON H 1S2473T-77 T26 D GERMA V 1K34A-LR F07 D SILICON H 1S2473T-77 T26 OSC X'TAL NC-18C 3.579545MHZ Parts) Classification rence symbols correspond with
				Diagrams.	symbolis in the Benomatic

5. The kind of part and its installation position can both be determined by the Part Number. To determine where a part number is listed, utilize the Parts Index at the end of the Parts List. It is necessary first of all to find the Part Number. This can be accomplished by using the Reference Number listed at the right of the part number in the Parts Index.

#### WARNING

△ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS

#### **AVERTISSEMENT**

ÀIL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT

# I. MODEL AP-100

# FINAL ASSEMBLY BLOCK

NOTE: Parts listed in 1 to SW901 on the exploded view and list are normally stocked for replacement purpose. The remaining parts shown in this manual are not normally stocked, because they are seldom required for routine service.

Optional Accessory
Cartridge PC-35

# 1. MOTOR PC BOARD

REF. NO. PART NO. DESCRIPTION

1-IC1 EI-357879 IC LA5512 1-SW1 ES-358768 SW SLIDE SSY322-059 1-VR1,VR2 EV-315416 R S-FIX H D8 3P 103

# SYMBOL FOR DESTINATION

[A]: AAL (USA)
[B]: UK (England)

# 2. FINAL ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRIPTION
2-1	BC-358036A	CADINET AD A 400
2-1B	BC-358036B	CABINET AP-A100
2-2	TP-358836	CABINET AP-A100-B
2-3	TP-351625	CLAMPER ARM
2-4	ZG-353257	TONE ARM ARM-A1
2-5	ZW-340648	SP TORSION CANCELER
2-6	ZG-325402	RING CS 190STL PKR SP ELEVATION
2-7	TP-345341	SHAFT ELEVATION
2-8	SK-345362A	KNOB ELEVATION
2-8B	SK-345362E	KNOB ELEVATION  KNOB ELEVATION-B
2-9	ZS-358930	SCREW B Y 3824
2-10	TP-P1034A040A	PU PLATE BLK AP-B1
2-11	ZG-313181	SP C-04.5/0.35-16.0 C-028
2-12	SK-351739	KNOB CUT
2-13	ML-358006	LEVER MANUAL
2-14	MZ-358034	WIRE CUT
2-15	MB-345351B	CUSHION RUBBER (2)
2-16	ZS-350767	SCREW
2-17	ZG-332548	SP PUSH (A)
2-18	TP -B332568X2	ARM ELEVATION PART
2-19	TP-B345367	CHASSIS SPINDLE PART
2-20	MV-269965	BALL 400STL
2-21	ML-345348	LEVER AUTO
2-22	TP-P1034A080A	GEAR MAIN BLK AP-B1
2-23	ZW-270101	RING E 300SUP CMT
2-24	ZG-313073	SP T1-06.3/0.50-28.0 T1-18510
2-25	SA-332577C	INSULATOR (C)
2-26	BC-B332582	DUST COVER PART
2-27	TP-301300	COVER CUSHION
2-28	TP-336361	HINGE AUTO OH-5
2-28B	TP-336362	HINGE AUTO OH-5-BL
2-29	TP-348321	PLATTER
2-30A	TP-348266A	TABLE SHEET A [U,B]
2-30B	TP-348266B	TABLE SHEET B [A]
2-31	MB-355119	BELT EP
2-32A	EW-358749	CORD 2P AUDIO CORD [U,B]
2-32B	EW-358750	CORD 2P AUDIO UL [A]
2-33	EW-358754	CORD 2CORES DC CORD UL
2-34	SK-351613B	KNOB SLIDE-B
2-35 2-35B	AX-332567C	45 ADAPTER-S
2-35B 2-M901	AX-332567D	45 ADAPTOR-B
2-M901 2-SW901	BM-354988	MOTOR BFD2R16
2-3W 9U 1	ES-316432	SW MICRO K2(P)

# SYMBOL FOR COLOR VARIATION

NON : STANDARD COLOR

PARTS LIST

#### II. MODEL AP- A200

#### RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF. NO.	PART NO.	DESCRIPTION
1 N	BM-360085	⚠ MOTOR SS09DA
2	ED-349656	D LED AY5505S
3	ED-337391	D LED GL5NG6 GREEN
4	ED-557447	D SILICON H 1S1588
5	ED-708712	D SILICON 1S1555
6	EI-780137	IC VC1031
7	ES-325488	SW MICRO K1(P)
8	ES-337843	SW PUSH ESB-64501 02-2
9	ET-308867	TR 2SA1015 O,Y,GR
10	ET-742510	TR 2SA950 O.Y
11	ET-330225	TR 2SC1815 BL
12	ET-328844	TR 2SC3120 O,Y
13	EV-780138	R S-FIX 103
14		MAIN GEAR BLK AP-B1

"NOTE" N: New Parts

#### SYMBOL FOR DESTINATION

[A]: AAL (USA)[B]: UK (England)[U]: U/T (Universal Area)

#### 1. MOTOR PC BOARD

REF. PART NO. DESCRIPTION 1-IC1 EI-780137 IC VC1031 1-Q1,Q2 ET-328844 TR 2SC2110 O,Y 1-Q3,Q4 ET-742510 TR 2SA950 O,Y 1-Q5,Q6 ET-308867 TR 2SA1015 O,Y,GR 1-Q7,Q8 ET-330225 TR 2SC1815 BL 1-Q9 ET-308867 TR 2SA1015 O,Y,GR 1-Q10 ET-330225 TR 2SC1815 BL ET-742510 TR 2SA950 O,Y 1-Q11 ED-708712 D SILICON 1S1555 1-VR1 EV-780138 R S-FIX 103 ER-353877 A R OMF H S15 FS 1W 1R0J

#### 2. SPEED SELECTOR PC BOARD

REF. PART NO. DESCRIPTION

2-D1,D2 ED-557447 D SILICON H 1S1588 2-SW1 ES-337843 SW PUSH ESB-64501 02-2

#### 3. LED PC BOARD

REF. PART NO. DESCRIPTION

3-D1 ED-337391 D LED GL5NG6 GREEN 3-D2 ED-349656 D LED AY5505S

#### 4. FINAL ASSEMBLY BLOCK

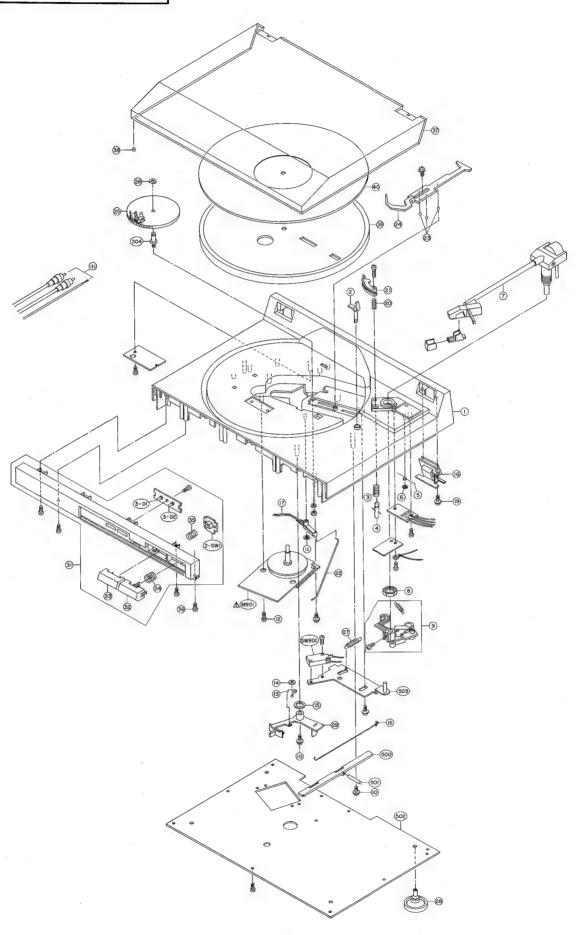
REF. NO.	PART NO.	DESCRIPTION
4-1	BC-353231D	CABINET (2)
4 -1B	BC-353231F	CABINET (2)-B
4-2	TP-358836	C LAMPER ARM
4-3	ZG-358951	SP ELEVATION
4-4	MS-353238	SHAFT ELEVATION
4-5	ZG-353257	SP TORSION CANCELER
4-6	ZW-340648	RING CS 190STL PKR
4-7	TP-353252	TONE ARM ARM-A2
4-8	ZW-325521	N120×170×30STL CMT P100
4-9	TP-P1037A040A	LEVER PU PLATE BLK AP-A2
4-10	ZS-358930	SCREW BY 3824
4-11	ZW-340648	RING CS 190STL PKR
4-12	ZS-310984	PT BR 30×08STL CMT
4-13	ZG-358000	SP TORSION KNOB
4-14	ZW-331536	PW21×050×013PSL
4-15	ZW-382083	WASHER (NYLON) D6.1×13×1T
4-16	TP-358003	WIRE ELEVATION
4-17	ML-358006	LEVER MANUAL
4-18	TP-353712	HINGE ASSY AP-A2
4-19	ZS-349118	S CREW W/FRANGE
4-20	ZG-332548	SP PUSH (A)
4-21	TP-B332568X2	ARM ELEVATION PART
4-22	TP-360072	LEVER REJECT (B)
4-23	MV-269965	BALL 400STL
4-24	ML-345348	LEVER AUTO
4-25	TP-P1034A080A	MAIN GEAR BLK AP-B1
4-26	ZW-290283	RING U 285SUP CMT
4-27	ZG-313073	SP T1-06.3/0.50-28.0 T1-185
4-28	SA-332577	INSULATOR
4-29	TP-358012A	ANGLE LIFTER
4-29B	TP-358012B	ANGLE LIFTER-B
4-30xA	AX-332567C	45 ADAPTER-S
4-30xB	AX-332567D	45 ADAPTOR-B
4-31	BD-P1047A020A	PANEL FRONT BLK AP-A200-C
4-31B	BD-P1047A020B	PANEL FRONT BLK AP-A200-CB
4-32	SK-358010A	KNOB CUT
4-32B	SK-358010B	KNOB CUT-B
4-33	SK-358011A	KNOB SPEED
4-33B	SK-358011B	KNOB SPEED-B
4-34	ZG-358952	SP KNOB (B)
4-35	SP-359109	SP KNOB (C)
4-36	ZS-332009	PT BR30×06STL CMT [PANEL FRONT FIX]
4-37	BC-B353247	DUST COVER PART
4-38	MB-343057	COVER CUSHION
4-39	TP-B358014	PLATTER PART
4-40A	TP-348266B	TABLE SHEET B [A]
4-40B	TP-348266A	TABLE SHEET A [U,B]
4-41	EW-358754	CORD 2CORES DC CORD UL
4-42A	EW-358750	CORD 2P AUDIO UL [A]
4-42B	EW-358749	CORD 2P AUDIO CORD [U,B]
4-M901	BM-360085	⚠ MOTOR SS09DA
4-SW901	ES-325488	SW MICRO K1(P)

NOTE: Parts listed in 1 to SW901 on the exploded view and list are normally stocked for replacement purpose. The remaining parts shown in this manual are not normally stocked, because they are seldom required for routine service.

Optional Accessory

Cartridge PC-35

# FINAL ASSEMBLY BLOCK



#### RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF. NO.	PART NO.	DESCRIPTION
1 N	EC-359065	CS-FIX H CTC-6U-020 4.3-20
2	ED-321269	D LED GL5PR6 RED
3	ED-301911	D SILICON H DS448
4	ED-344280	D SILICON H GMA-01-FY2 F05
5	ED-349460	D VARACTER SVC321 A,B,C,D DOUBLE
6	ED-349448	D VARACTOR 1SV147
7	ED-306316	D ZENER H HZ5 C2
8	ED-337265	D ZENER H HZ6 C2
9	EH-336804	FILTER CE S FE10.7MA8 10.7MHZ
10	EH-355568	FILTER CE S FE 10.7MS2GY-A
11 N	EH-355382	FILTER LC BP 79-5151-11 [V]
12 N	EI-359048	IC C1005-736
13	EI-354951	IC LM7000
	EI-359060	
15 N	EI-359061	IC LA3361
16	EI-348409	OSC ČE CSB400P 0.4MHZ
17	EI-344422	OSC X'TAL HC-18/U 7.200000MHZ
18	EM-353670	IND FL 8-BT-29ZK CHARACTER
19	EO-337598	COIL VARI 2 25A-1353-01
20	EO-337599	COIL VARI 2 25A-1354-03 [L]
21 N	ES-360115	SW SLIDE 00120262 01-02S [U,Y1]
22	ES-344445	SW TACT EVQ-QHR12B
23	ES-349367	SW TACT SKHHAB044A
24 N	ES-359172	SW TACT SKHHAF
25	ET-351853	TR FET 2SK161 Y
26	ET-352408	TR FET 2SK192A GR [L]
27	ET-337759	TR FET 2SK246 GR
28	ET-353899	TR 2SA1317 S,T,U
29	ET-338410	TR 2SC2878 A,B [L]
30	ET-336869	TR 2SC2999 C,D
31	ET-353366	TR 2SC3112 A,B
32	ET-353898	TR 2SC3330
33	ET-349081	TR 2SC3383 S,T
34	ET-328265	TR 2SC930 F
35	EV-356579	R S-FIX H H0615C 3P 102
36	EV-356577	R S-FIX H H0615C 3P 103

#### "NOTE" N: New Parts

#### SYMBOL FOR DESTINATION

- [A]: AAL (USA)
- [B]: UK (England)
- [C]: CSA (Canada)
- [E]: CEE (Europe)
- [S]: SAA (Australia)
- [U]: U/T (Universal Area)
- [V]: VDE (West Germany)

#### 1. PC BOARD BLOCK

REF. NO.	PART NO.	DESCRIPTION
1-1A	BA-A3052A030A	PC TUNER BLK AT-A200(U)
1-1B	BA-A3052A030B	PC TUNER BLK AT-A200(C)
1-1C	BA-A3052A030C	PC TUNER BLK AT-A200(E)
1-1D	BA-A3052A030D	PC TUNER BLK AT-A200(V)
1-1E	BA-A3052A030E	PC TUNER BLK AT-A200(S)
1-1F	BA-A3052A030F	PC CONTROL BLK AT-A200L (E,B)
1-1G	BA-A3052A030G	PC TUNER BLK AT-A200 (Y1)
1-2A	BA-F0141A010A	PC FRONT END BLK FE41 (U,C,A,
		E,S,L)
1-2B	BA-F0141A010B	PC FRONT END BLK FE41 (V)
1-2C	BA-F0141A010C	PC FRONT END BLK FE41/SA (Y1)
1-2	BA-C1005A030A	PC FRONT BLK AC-A100
1-3A	BA-A3052A020A	PC CONTROL BLK AT-A200(U)
1-3B	BA-A3052A020B	PC CONTROL BLK AT-A200(C)
1-3C	BA-A3052A020C	PC CONTROL BLK AT-A200(A)
1-3D	BA-A3052A020D	PC CONTROL BLK AT-A200(E,V,S)
1-3E	BA-A3052A020E	PC CONTROL BLK AT-A200L (E,B)
1-3F	BA-A3052A020F	PC CONTROL BLK AT-A200 (Y1)

#### NOTES:

- (1) PC TUNER BLK consists of following PC BOARDS.
  - · TUNER PC BOARD
  - · FRONT END PC BOARD
  - · CONNECTOR PC BOARD
- (2) PC CONTROL BLK consists of following PC BOARDS.
  - · CONTROL PC BOARD
  - · POWER SW PC BOARD

#### 2. TUNER PC BOARD

REF. NO.	PART NO.	DESCRIPTION
2-IC1	EI-354951	IC LM7000
2-IC2	EI-359060	IC HA12430
2-IC3	EI-359061	IC LA3361
2-TR1	ET-328265	TR 2SC930 F
2-TR2	ET-337759	TR FET 2SK246 GR
2-TR3	ET-349081	TR 2SC3383 S,T
2-TR4	ET-338410	TR 2SC2878 A,B [L]
2-TR5	ET-352408	TR FET 2SK192A GR [L]
2-TR6	ET-338410	TR 2SC2878 A,B [L]
2-TR7	ET-353898	TR 2SC3330 [L]
2-TR8,TR9		TR 2SA1317 S,T,U
2-TR10	ET-353898	TR 2SC3330
2-TR11	ET-351853	TR FET 2SK161 Y
2-TR12	ET-328265	TR 2SC930 F
2-TR13	ET-351853	TR FET 2SK161 Y
2-TR14	ET-353898	TR 2SC3330
2-TR15,		11 2503330
TR16	ET-353366	TR 2SC3112 A,B
2-TR17 to	27 22 22 20 20 20 20 20 20 20 20 20 20 20	11 25C3112 11,B
TR21	ET-349081	TR 2SC3383 S,T
2-TR22,	21 317001	1 1 250 350 3 5,1
TR23	ET-353898	TR 2SC3330 [L]
2-D1	ED-306316	D ZENER H HZ5 C2
2-D2,D3	ED-349460	D VARACTER SVC321 A,B,C,D
2-02,03	LD-349400	DOUBLE
2-D4,D5	ED-344280	D SILICON H GMA-01-FY2 F05 [L]
2-D4,D3 2-D6	ED-344280	D SILICON H GMA-01-FY2 F05 [L]
2-D7	ED-344260 ED-337265	D ZENER H HZ6 C2
	ED-337263 ED-301911	D SILICON H DS448
2-D3 to D10	ED-344280	
2-SW1	ES-344445	D SILICON H GMA-01-FY2 F05
2-SW2		SW TACT EVQ-QHR12B
2-SW 2 2-VR1	ES-360115	SW SLIDE 00120262 01-02S [U,Y1]
2-V R I 2-V R 2	EV-356577	R S-FIX H H0615C 3P 103
2-VK2 2-FL1,FL2	EV-356579	R S-FIX H H0615C 3P 102
2-FL3	EH-355568	FILTER CE SFE10.7MS2GY-A
2-FL3 2-FL4	EH-336804	FILTER CE SFE10.7MA8 10.7MHZ
2-L1,L2	EH-355382	FILTER LC BP 79-5151-11 [V]
2-L1,L2 2-T1		COIL FIX 1 L-8 223J
2-T2	EO-337598 EO-337599	COIL VARI 1 25A-1353-01
2-1 2 2-T 3		COIL VARI 2 25A-1354-03 [L]
2-T4	EO-336829	COIL OSC 2 7NR-7818F 125UH
2-14 2-T5	EO-359062	COIL OSC2 7BR-9585F [L] COIL DET2 117-1009-01
2-T6	EO-359063 EO-356732	COIL IFT BCFLZ-450A
2-X1	EI-344422	
2-VC1	EC-359065	CS-FIX H CTC-6U-020 4.3-20
2-VC2	EC-359065	CS-FIX H CTC-6U-020 4.3-20 [L]
2-R6	ER-306805	R CB H S15 FS RDS 1/2W 101J
2-R0 2-R7	ER-327710	R CB H S10 FS RDS 1/4W 151J
2-R8	ER-360146	
2-R47	ER-360146	R OMF H S10 FS 1/2W 151J R OMF H S10 FS 1/2W 151J
2-R 64	ER-328067	R CB H S10 FS RDS 1/4W 331J
2-K04 2-C7	EC-347591	C MMY V F05 MMH63 474M 100DC
2-C17A	EC-347591 EC-356597	C PP V F05 PP 431J 50DC [EXCEPT L]
2-C17A 2-C17B		C DD V EOS DD S111 SODO [EXCEPT L]
2-C17B	EC-353044 EC-346879	C PP V F05 PP 511J 50DC [L]
2-C18 2-C51	EC-346879 EC-344483	C PP V F05 PP 221J 50DC [L]
2-C51 2-C62,C63	EC-356598	C PP V F05 PP 102J 50DC
2-C62,C63	EJ-359031	C PP V F05 PP 302J 50DC TERMINAL LEVER YK-D31-0215 P 2P
	23-33 90 31	TERMINAL LEVER I K-D31-0215 P 2P

#### 3. FRONT END PC BOARD

REF. NO.	PART NO.	DESCRIPTION
3-TR1	ET-351853	TR FET 2SK161 Y
3-TR2	ET-336869	TR 2SC2999 C,D
3-TR3	ET-328265	TR 2SC930 F
3-TR4	ET-351853	TR FET 2SK161 Y
3-D1 to D4	ED-349448	D VARACTOR 1SV147
3-L1	EO-349461	COIL FIX 2 LINK
3-L2	EO-349462	COIL FIX 2 U147
3-L3	EO-349461	COIL FIX 2 LINK
3-L4,L5	EO-349462	COIL FIX 2 U147
3-L6	EO-359056	COIL FIX 1 LAL03NA 2R2M
3-L7A	EO-353687	COIL OSC 2 E525HN-110003 [EXCEPT Y1]
3-L7B	EO-361840	COIL OSC 2 E525HNS-110011 [Y1]
3-T1	EO-337640	COIL IFT 119AC-15533X 10.7MHZ

#### 4. CONTROL PC BOARD

REF. NO.	PART NO.	DESCRIPTION
4-IC1	EI-359048	IC C1005-736
4-TR1	ET-353899	TR 2SA1317 S,T,U [U,Y1]
4-D1	ED-301911	D SILICON H DS448 [U,Y1]
4-D2	ED-301911	D SILICON H DS448 [L]
4-D3	ED-301911	D SILICON H DS448 [Y1]
4-D4	ED-301911	D SILICON H DS448 [C,A]
4-D5 to D7	ED-301911	D SILICON H DS448
4-D8	ED-344280	D SILICON H GMA-01-FY2 F05
4 -D9,D10	ED-301911	D SILICON H DS448
4-D11	ED-344280	D SILICON H GMA-01-FY2 F05
4-D12,D13	ED-301911	D SILICON H DS448
4-D14	ED-301911	D SILICON H DS448 [A]
4-D15	ED-321269	D LED GL5PR6 RED
4-SW1 to		
SW10	ES-349367	SW TACT SKHHAB044A
4-X1	EI-348409	OSC CE CSB400P 0.4MHZ
4-IB1	EH-359049	COMP R TNC15A104J
4-IN1	EM-353670	IND FL 8-BT-29ZK CHARACTER

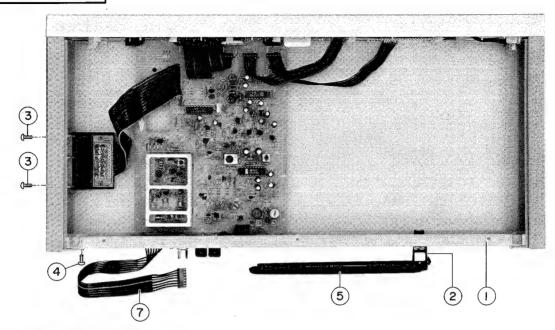
#### 5. POWER SW PC BOARD

REF. NO.	PART NO.	DESCRIPTION
5-SW11	ES-359172	SW TACT SKHHA

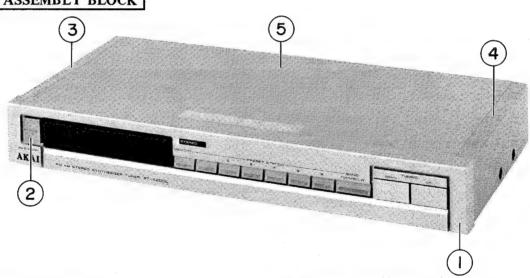
#### 6. CONNECTOR PC BOARD

REF. NO.	PART NO.	DESCRIPTION
6-P1	EJ-356522	PLUG CONNECTOR-B M1690-A.12P

#### ASSEMBLY BLOCK



#### FINAL ASSEMBLY BLOCK



#### 7. ASSEMBLY BLOCK

REF. PART NO. DESCRIPTION

7-1A SP-358980A PANEL REAR AT-A200(U,Y1)

7-1B SP-358980B PANEL REAR AT-A200(A,C,E,S,V)

7-1C SP-358980E PANEL REAR AT-A200L(E,B)

7-2

SZ-332739 HOLDER ANTENNA ZS-359179 PT BR 30×12STL BNI C 7-3

ZS-359226 T2BR 30×10STL BZN

7-5 EE-359265 ANT LOOP LA-200A-A

7-6x EJ-352118 SOCKET COAX PAL B2-714P-900

EW-359171 WIRE ASSY AT-A200 7P(T-A)

#### 8. FINAL ASSEMBLY BLOCK

REF. PART NO. DESCRIPTION

#### PANEL FRONT BLOCK

8-1A BD-A3052A050A PANEL FRONT BLK AT-200 8-1B BD-A3052A050B PANEL FRONT BLK AT-A200L

8-1C BD-A3052A050C PANEL FRONT BLK AT-A200-B [BL]

PANEL FRONT BLK AT-A200L-B [BL] 8-1D BD-A3052A050D

SK-343017C KNOB POWER (2) 8-2

8-2B SK-343017F KNOB POWER-B

#### FINAL ASSEMBLY BLOCK

PANEL SIDE(L) BD-358978A

8-3B BD-358978B PANEL SIDE (L)-B 8-4 BD-358979A PANEL SIDE(R)

8-4B BD-358979B PANEL FRONT (R)-B

8-5 BC-358993A 8-5B BC-358993G COVER T-1

COVER T-1B

#### SYMBOL FOR COLOR VARIATION

NON: STANDARD COLOR

B or BL: BLACK

#### RECOMMENDED SPARE PARTS

DEE

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

REF.	PART NO.	DESCRIPTION
NO.		
1 N	BT-359195	↑ TRANS POWER A2043T-20 (A)
2 N	BT-359194	↑ TRANS POWER A2043T-30 (C)
3 N	BT-359197	↑ TRANS POWER A2043T-50 (B,S)
4 N		↑ TRANS PWWER A2043T-70 (U)
5 N		↑ TRANS POWER JA2043T-40 (E,V)
6	ED-348200	△ D SILICON DBA20C-K15 200/2.0A
7	ED-200213	⚠ D SILICON DBA40C-K15 200/2.6A
8	ED-346616	⚠ D ZENER H HZ12 B3
9	ED-346617	△ D ZENER H HZ12 C2
10	ED-337391	D LED GL5NG6 GREEN
11	ED-357754	D SILICON DS135D 200/1.0A
12	ED-301911	D SILICON H DS448
13	ED-319176	D ZENER H HZ12 A3
14	ED-322046	D ZENER H HZ18 1
15	ED-329056	D ZENER H HZ22 2
16	ED-302269	D ZENER H HZ5 A2
17	ED-346603	D ZENER H HZ6 A1
18	ED-337265	D ZENER H HZ6 C2
19 N	EF-359007	↑ FUSE BET T 1.25A 250V [B]
20	EF-359225	↑ FUSE BET T 3.15A 250V [B]
21 N	EF-359086	↑ FUSE BET T 4.00A 250V [B]
22 23	EF-602550	A FUSE SEMKO T 1.25A 250V [E,V,S]
24	EF-690996	A FUSE SEMKO T 250V 4.00A [E,V,S]
25	EF-691007	A FUSE SEMKO T 3.15A 250V [E,V,S]
26	EF-311839 EF-306952	A FUSE TSC A 250V 1.60A [U]
27	EF-308952 EF-308847	⚠ FUSE TSC A 250V 4.00A [U] ⚠ FUSE TSC 125V 1.60A [C,A]
28	EF-323080	⚠ FUSE TSC 125V 3.15A [C,A]
29	EF-306957	△ FUSE TSC 125V 4.00A [C,A]
30	EI-346071	IC M5218L-21
31	EI-337228	IC M5218L0
32 N	EI-359221	IC M5226P
33 N	EI-358554	IC STK4152-2
34	EI-332259	IC TC4052BP
35	ER-200595	A R FUSE ERD2FC S10 1/4W 5R6J
36	ES-349070	⚠ SW SELECTOR YKS11-0002 02-4 [U]
37 N	ES-359218	SW PUSH ESB-62951 2-02-02N
38 N	ES-359961	SW PUSH ESB621901 2 THROW
39	ES-337902	SW PUSH SDLD1P002 01-1
40	ET-349459	⚠ TR 2SD1406 O,Y,GR
41	ET-355216	TR 2SA1317 T,U
42	ET-353899	TR 2SA1317 S,T,U
43	ET-322598	TR 2SB632K E,F
44	ET-353898	TR 2SC3330
45	ET-360137	TR 2SC3330 U,V
46	ET-338565	TR 2SD1302 R,S
	EV-359220	VR ROTARY 16P20×3Y B104
48 N	EV-359083	VR SLIDE 30PSVOH MN254
49 N	EV-359219	VR SLIDE 30P2SVOIW104

"NOTE" N: New Parts

SYMBOL FOR DESTINATION

[A]: AAL (USA) [B]: UK (England)

[C]: CSA (Canada)

[E]: CEE (Europe)

[S]: SAA (Australia) [U]: U/T (Universal Area)

[V]: VDE (West Germany)

#### 1. PC BOARD BLOCK

REF. PART NO. DESCRIPTION NO. 1-1A BA-A2043A040A PC PRE AMP BLK AM-A200 (U,C,A, 1-1B BA-A0043A040B PC PRE AMP BLK AM-A200(V) 1-2A BA-A2043A020A PC MAIN BLK AM-A200(U) 1-2B BA-A2043A020B PC MAIN BLK AM-A200(C,A) 1-2C BA-A2043A020C PC MAIN BLK AM-A200(E,V,B,S)

#### NOTE:

PC PRE AMP BLK consists of following PC BOARDS.

PRE AMP PC BOARD

· GRAPHIC EQ PC BOARD

· LED PD BOARD

VOLUME PC BOARD

#### 2. PRE AMP PC BOARD

REF. NO.	PART NO.	DESCRIPTION
2-IC1	EI-346071	IC M5218L-21
2-IC2	EI-332259	IC TC4052BP
2-IC3	EI-337228	IC M5218L0
2-TR1	ET-355216	TR 2SA1317 T,U
2-TR2	ET-353899	TR 2SA1317 S.T.U
2-TR3		, ,
to TR7	ET-353898	TR 2SC3330
2-TR8	ET-338565	TR 2SD1302 R,S
2-D1	ED-357754	D SILICON DS135D 200/1.0A
2-D2	ED-301911	D SILICON H DS448
2-D3,D4	ED-346603	D ZENER H HZ6 A1
2-D9	ED-357754	D SILICON DS135D 200/1.0A
2-SW1	ES-359218	SW PUSH ESB-62951 2-02-02N
2-L1	EO-318635	COIL FIX 1 LAL04SK 2R2K [V]
2-J1	EJ-336905	PIN J AJC-035-ACB P 4P
2-J2	EJ-359067	SOCKET INLET HEC0470-01-640
2-P1	EJ-359178	PLUG CONNECTOR S7B-XH-A BLACK 7P

#### 3. GRAPHIC EQ PC BOARD

DEE

NO.	PART NO.	DESCRIPTION
3-IC4,		
IC.5	EI-359221	IC M5226P
3-TR9		
to TR12	ET-353898	TR 2SC3330
3-VR1	EV-359083	VR SLIDE 30PSVOH MN254
3-VR2		
to VR10	EV-359219	VR SLIDE 30P2SVOI W104

#### 4. MAIN PC BOARD

DDD		
REF. NO.	DADT NO	DESCRIPTION
NO.	PART NO.	DESCRIPTION
	MAIN PC B	
4-IC101	EI-358554	⚠ IC STK4152-2
4-TR102,		
TR 103		↑ TR 2SD1406 O,Y,GR
4-TR104	ET-322598	
4-TR105	ET-353899	TR 2SA1317 S,T,U
4-TR106,		
TR107	ET-360137	
4-D101		D SILICON H DS448
4-D102	ED-329056	
4-D103	ED-337265	D ZENER H HZ6 C2
4-D104	ED-319176	D ZENER H HZ12 A3
4-D105	ED-346616	⚠ D ZENER H HZ12 B3
4-D106	ED-346617	⚠ D ZENER H HZ12 C2
4-D108,		
D109	ED-301911	D SILICON H DS448
4-D110	ED-322046	
4-D111	ED-302269	
4-D112	ED-348200	
4-D113	ED-200213	
4-D114	200213	25 D DIDICON DB/140C-R13 200/2.0/1
to D116	ED-301911	D SILICON H DS448
4-L101	EO-337880	
	ER-200595	↑ R FUSE ERD2FC S10 1/4W 5R6J
4-R107,	ED 44400	A D CD H Cto FC DDC t law to t
R108	ER-324480	⚠ R CB H S10 FS RDS 1/4W 470J
4-R111,		A
R112	ER-359351	
4-R116	ER-359269	⚠ R OMF H S12 FS 1W 221J
4-R121,		
R122	ER-322591	
4-C114	EC-323846	C EC V CUT H 102M 35.0DC
4-C116,		
C117	EC-360113	C EC V S10 TS 472M 45.0DC
4-C118	EC-326583	C MMY V CUT CF921 473K 400DC
	ASSEMBLY	
4-TR101	ET-349459	
4-F3A	EF-306957	
4-F3B		↑ FUSE SEMKO T 250V 4.00A [E,V,S]
	EF-359086	↑ FUSE BET T 4.00A 250V [B]
4-F4A	EF-306957	⚠ FUSE TSC 125V 4.00A [C,A]
4-F4B	EF-690996	↑ FUSE SEMKO T 250V 4.00A [E,V,S]
4-F4C	EF-359086	⚠ FUSE BET T 4.00A 250V [B]
4-F5A		⚠ FUSE TSC 125V 1.60A [C,A]
4-F5B	EF-602550	↑ FUSE SEMKO T 1.25A 250V [E,V,S]
4-F5C	EF-359007	△ FUSE BET T 1.25A 250V [B]
4-F6A	EF-306952	⚠ FUSE TSC A 250V 4.00A [U]
4-F6B	EF-306957	⚠ FUSE TSC 125V 4.00A [C,A]
4-F6C	EF-691007	⚠ FUSE SEMKO T 3.15A 250V [E,V,S]
4-F6D	EF-359225	⚠ FUSE BET T 3.15A 250V [B]
4-F7A	EF-306952	⚠ FUSE TSC A 250V 4.00A [U]
4-F7B	EF-306957	↑ FUSE TSC 125V 4.00A [C,A]
4-F7C	EF-691007	▲ FUSE SEMKO T 3.15A 250V [E,V,S]
4-F7D	EF-359225	⚠ FUSE BET T 3.15A 250V [B]

#### 5. POWER SUPPLY PC BOARD

REF. NO.	PART NO.	DESCRIPTION
5-SW201	ES-337902	SW PUSH SDLD1P002 01-1
5-SW202	ES-359961	SW PUSH ESB621901 2 THROW
5-L201	EO-338409	COIL LF FKOB160MHO2 250UH [V]
5-L202,		
L203	EO-342936	COIL BALUN [V]
5-R201	ER-356573	A R SD ANTI-STATIC 1/2W 225K [C,A]
5-R202	ER-359268	⚠ R OMF H S12 FS 1W 181J
5-C201A	EC-320548	C CE V F 103Z 250AC [U]
5-C201B	EC-314688	C CE V FZ 103P 125AC [C,A]
5-C201C	EC-338496	C CE V FZ472P 400AC [E,B,S]
5-TM201	EJ-349061	TERMINAL PUSH YKD21-0025 P 8P
5-J201	EJ-359222	PHONE J 3P HLJ4318-3020 6.3 20
5-F1A	EF-311839	⚠ FUSE TSC A 250V 1.60A [U]
5-F1B	EF-323080	⚠ FUSE TSC 125V 3.15A [C,A]
5-F1C	EF-602550	⚠ FUSE SEMKO T 1.25A 250V [E,V,S]
5-F1D	EF-359007	⚠ FUSE BET T 1.25A 250V [B]
5-F2	EF-311839	⚠ FUSE TSC A 250V 1.60A [U]

#### 6. LED PC BOARD

REF. NO.	PART NO.	DESCRIPTION
6-D5 to D8	ED-337391	D LED GL5NG6 GREEN

#### 7. VOLUME PC BOARD

REF. NO.	PART NO.	DESCRIPTION
7-VR11	EV-359220	VR ROTARY 16P20×3Y B104

#### 8. CONNECTOR (A) PC BOARD

REF. NO.	PART NO.	DESCRIPTION
8-J901	EJ-356521	SOCKET CONNECTOR-B M1701-A 12P
0 00	MATECEOR	(D) DG DG 1DD

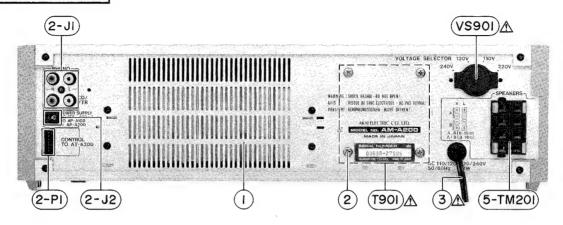
#### 9. CONNECTOR (B) PC BOARD

NO.

PART NO. DESCRIPTION

9-P901	EI-356522	PLUG CONNECTOR-R M1690-A 12P

#### ASSEMBLY BLOCK



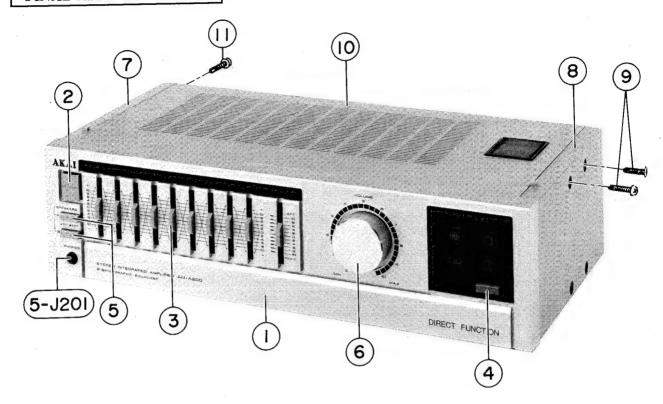
#### 10. ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRIPTION
	ASSEMBLY	BLOCK
10-1A	SP-358990E	PANEL REAR AM-A200(U)
10-1B	SP-358990C	PANEL REAR AM-A200(A,C)
10-1C	SP-358990A	PANEL REAR AM-A200(E,V)
10-1D	SP-358990B	PANEL REAR AM-A200(B,S)
10-2	ZS-322580	ST BID40X08STL BNI [POWER
		TRANS FIX
10-3A	EW-359076	⚠ AC CORD C1005 U [U]
10-3B	EW-359077	⚠ AC CORD CD1005 C [C]
10-3C	EW-359078	⚠ AC CORD 2 CORES VM02380
		SPT-1-CB UC [A]
10-3D	EW-359079	⚠ AC CORD 2 CORES VM0364
		LC2×0.75CBEV [E,V]
10-3E	EW-359204	⚠ AC CORD 2 CORES LC2×0.75-CB
		B [B]
10-3F	EW-359081	AC CORD 2 CORES VM0436
		$LC2\times0.75CB S [S]$
10-T901A	BT-359193	↑ TRANS POWER A2043T-70 (U)
10-T901B	BT-359194	<b>⚠</b> TRANS POWER A2043T-30 (C)
10-T901C	BT-359195	<b>↑</b> TRANS POWER A2043T-20 (A)
10-T901D	BT-359196	↑ TRANS POWER JA2043T-40 (E,V)
10-T901E	BT-359197	↑ TRANS POWER A2043T-50 (B,S)
10-VS901	ES-349070	<b>⚠</b> SW SELECTOR YKS11-0002 02-4 [U]
	PRE AMP PO	C DO A DO
0.71		
2-J1	EJ-336905	
2-J2	EJ-359067	SOCKET INLET HEC0470-01-640
2-P1	EJ-359178	PLUG CONNECTOR S7B-XH-A
		BLACK 7P

POWER SUPPLY PC BOARD
EJ-349061 TERMINAL PUSH YKD21-0025 P8P

5-TM201

# FINAL ASSEMBLY BLOCK



# 11. FINAL ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRIPTION
	PANEL FRONT B	LOCK
11-1	BD-A2043A050A	PANEL FRONT BLK AM-A200
11-1B	BD-A2043A050B	PANEL FRONT BLK AM-A200-B
11-2	SK-343017C	KNOB POWER (2)
11-2B	SK-343017F	KNOB POWER-B
11-3	SK-358879	KNOB SLIDE
	PRILL ACCEMENT	V DI OCV
	FINAL ASSEMBL	BUTTON PUSH
11-4	SB-358882	
11-5	SB-358882B	BUTTON PUSH(2)
11-6	SK-B358605X2	KNOB VR (Y) PART
11-6B	SK-B358605X4	KNOB VR (Y)-B PART
11-7	BD-358994A	PANEL SLIDE (L)
11-7B	BD-358994B	PANEL SIDE(L)-B
11-8	BD-358995A	PANEL SIDE (R)
11-8B	BD-358995B	PANEL SIDE(R)-B
11-9	ZS-359179	PT BR 30×12STL BNI C [J901 FIX]
11-10	BC-358993C	COVER A-1
11-10B		COVER A-1B
11-102	ZS-359226	T2BR 30X 10STL BZN [COVER A-1
11.11	•	FIX]
		nc no + DD
	POWER SUPPLY	PC BUAKD
5-J201	EJ-359222	PHONE J 3P HLJ4318-3020 6.3 20

#### NOTE:

PANEL FRONT BLK consists of 11-2 and 11-3.

#### V. MODEL HX-A200

#### RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

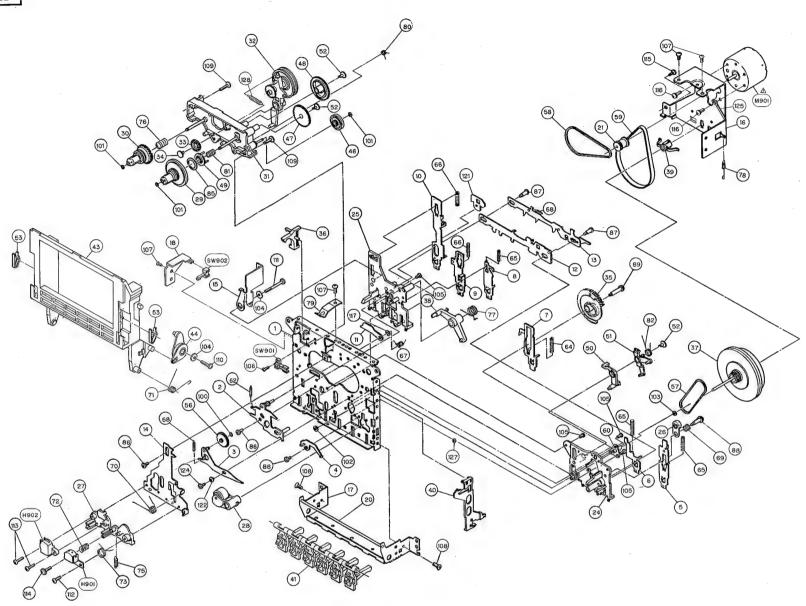
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REF. PART NO.
                 DESCRIPTION
NO.
     BF-712807 FLYWHEEL ASSY
     BL-712799 PINCH ROLLER ARM ASSY
     BM-712825 A MOTOR (W/PULLEY) ASSY DO.
     BR-715919 SUPPLY REEL ASSY
     BR-715918 TAKE-UP REEL ASSY
     ED-330996 D LED GL5HY5 YELLOW
     ED-337391 D LED GL5NG6 GREEN
     ED-321269 D LED GL5PR6 RED
     ED-344280 D SILICON H GMA-01-FY2 F05
     ED-324014 D ZENER H HZ11 B1
     ED-331617 D ZENER H HZ6 A3
     EH-351182 FILTER DB 201AK-005 100KHZ
     EI-349591 IC LA2730
     EI-345551 IC LB1403
     EO-349589 COIL OSC 1 32-5016-12
16 N ES-716377 SW LEAF LSA-1120YN
17 ES-713179 SW LSA-1123-37
18 N ES-362802 SW PUSH ESB-621574 4 THROW
19 N ES-359071 SW PUSH ESB-62771 2-02-02N
20 N ES-359192 SW PUSH SPUL12 2-02-02N
21 N ES-359189 SW SLIDE SSCK17 1-07-02S
22 ET-308977 TR 2SC2274K F
    ET-344275 TR 2SC2320L F,G
    ET-360137 TR 2SC3330 U,V
     ET-349081 TR 2SC3383 S,T
25
    ET-350795 TR 2SC3399
26
    ET-349366 TR 2SC3402
27
28
    ET-310148 TR 2SD612K E,F
29 N EV-356582 R S-FIX M H0615C 3P 473
    HE-337047 HEAD E HAJAB3040A C
    HP-712824 HEAD R/P HY424528 SVK
31
    MB-712818 BELT AUTO
     MB-712820 BELT DRIVE
    MB-712819 BELT FR
    MB-351605 BELT 0.8×D593 CRHS65
    MC-353312 COUNTER MK395-043 (BLACK)
    MI-715935 CLUTCH ARM ASSY
    MI-712813 GEAR ATUO
    MI-711710 GEAR C
    MI-712814 GEAR CAM AUTO
    MI-712804 GEAR FF
    MI-712817 IDLER PLAY
    MI-712812 PULLEY AUTO
```

#### "NOTE" N: New Parts

#### SYMBOL FOR DESTINATION

- [A]: AAL(USA)
- [B]: UK (England)
- [C]: CSA (Canada)
- [E]: CEE (Europe)
- [S]: SAA (Australia)
- [U]: U/T (Universal Area)
- [V]: VDE (West Germany)

# MECHA BLOCK



# 1. MECHA BLOCK

REF. NO.	PART NO.	DESCRIPTION	NO.	PART NO.	DESCRIPTION
1-1	BB-359082	MECHA AKI-95 FMF C1005 BLK	1-47	MI-712813	GEAR AUTO
1-24	ML-716375	LEVER HOLDER (A)	1-48	MI-712814	GEAR CAM AUTO
1-26	MZ-716171	CAM PAUSE	1-49	MI-715920	CLUTCH AUTO
1-27	HZ-716172	HEAD BASE	1-50	ML-716179	
1-28	BL-712799	PINCH ROLLER ARM ASSY	1-51	ML-716180	ARM ATUO LOCK
1-29	BR-715918	TAKE-UP REEL ASSY	1-52	ZW-716181	
1-30	BR-715919	SUPPLY REEL ASSY	1-53	ZG-712816	CLMAP CASSETTE
1-32	MI-715935	CLUTCH ARM ASSY	1-56	MI-712817	IDLER PLAY
1-33	MI-712804	GEAR FF	1-57	MB-712818	
1-34	MZ-749256	BUSH	1-58	MB-712819	
1-35	MI-711710	GEAR C	1-59	MB-712820	
1-36	ML-712806	REC SENSOR	1-60		MAIN CASE
1-37	BF-712807	FLYWHEE L ASSY	1-67	ZG-716187	SP REC LEVER
1-38	ML-716175	ARM LOCK (H)	1-68	ZG-716188	SP CAM
1-39	MZ-712808		1-69	ZG-716189	SP PAUSE CAM
1-40	ML-712809	LEVER EJECT	1-70	ZG-716190	
1-41	SB-716178	BUTTON LEVER	1-72	ZG-749268	
1-43	TC-712810	LID FRAME	1-73	ZG-715921	
1-44	TC-712811	DAMPER ASSY	1-75	ZG-715940	SP HEAD RETURN
1-46	MI-712812	PULLEY AUTO	1-78	ZG-716193	SP EJECT LEVER
2			1-79	ZG-712822	SP PACK
	•		·		PARTS LIST
					TAKIS LIST

REF. NO.	PART NO.	DESCRIPTION
1-80	ZG-716194	SP AUTO SENSER
1-81	ZS-716355	SP AUTO CLUTCH
1-82	ZG-716197	SP UATO LOCK ARM
1-85	TC-712823	FELT AUTO CLUTCH
1-112	ZS-536488	BID20×08STL CMT
1-113	ZS-749292	BID20×8.5STL CMT
1-114	ZS-749293	BID20×09STL CMT TW
1-128	ZG-715922	SP CLUTCH ARM
1-H901	HP-712824	HEAD R/P HY424528 SVK
1-H902	HE-337047	HEAD E HAJAB3040A C
1-M901	BM-712825	⚠ MOTOR (W/PULLEY) ASSY
1-SW901		SW LEAF LSA-1120YN
1-SW902	ES-713179	SW LSA-1123-37

Note: Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustra-tions with reference No.

#### 2. PC BOARD BLOCK

REF. NO.

PART NO.

DESCRIPTION

BA-T2085A020A PC PRE AMP BLK HX-A200

#### 6. LED PC BOARD

REF. NO.

PART NO. DESCRIPTION

6-D207 ED-321269 D LED GL5PR6 RED

6-D208 ED-337391 D LED GL5NG6 GREEN

#### NOTE:

PC PRE AMP LBK consists of following PC BOARDS.

- · PRE AMP PC BOARD
- · STAND BY SW PC BOARD
- · LED PC BOARD

#### 3. PRE AMP PC BOARD

REF. NO.	PART NO.	DESCRIPTION
110.		
3-IC201	EI-349591	IC LA2730
3-TR201	ET-344275	TR 2SC2320L F,G
3-TR202	ET-350795	TR 2SC3399
3-TR203		
to TR207	ET-349081	TR 2SC3383 S,T
3-TR208,		
TR209	ET-308977	TR 2SC2274K F
3-TR210	ET-360137	TR 2SC3330 U,V
3-TR211	ET-310148	•
3-TR212	ET-360137	•
3-TR213	ET-349366	TR 2SC3402
3-TR214,		
TR215	ET-349081	TR 2SC3383 S,T
3-TR216,		
TR217	ET-349366	TR 2SC3402
3-D201		
to D203	ED-344280	D SILICON H GMA-01-FY2 F05
3-D204	ED-331617	
3-D205	ED-324014	
3-SW201	ES-359189	
3-SW202	ES-362082	SW PUSH ESB-621574 4 THROW
		[INCLUDING SW203]
3-SW203	ES-359071	SW PUSH ESB-62771 2-02-02N
3-VR201		
to VR203	EV-356582	R S-FIX H H0615C 3P 473
3-FL201	EH-351182	FILTER DB 201AK-005 100KHZ
3-FL202	EO-356809	COIL FIX 1 100Z-121 100.00KC
3-L201	EO-357050	COIL FIX 1 RC875 822J
3-T201	EO-349589	
3-C232	EC-347263	
3-C237	EC-326138	C PP V F10 APH 182J 630DC

#### 4. LEVEL METER PC BOARD

REF. NO.	PART NO.	DESCRIPTION
4-IC101	EI-345551	IC LB1403
4-D1,D2	ED-337391	D LED GL5NG6 GREEN
4-D3,D4	ED-330996	D LED GL5HY5 YELLOW
4-D5	ED-321269	D LED GL5PR6 RED

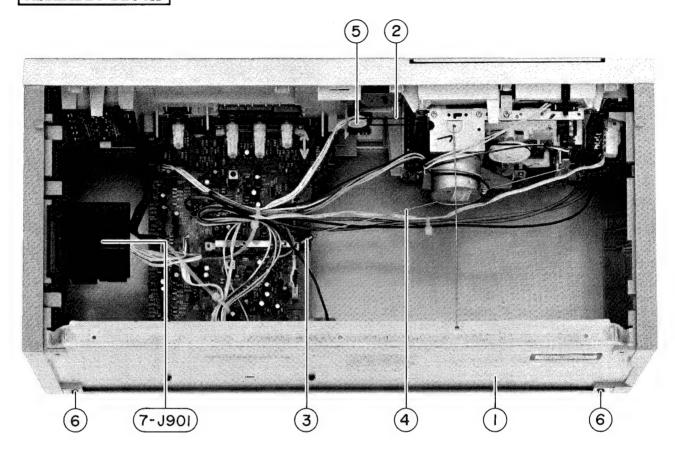
#### 5. STAND BY SW PC BOARD

NO.

PART NO. DESCRIPTION

5-SW204 ES-359192 SW PUSH SPUL12 2-02-02N

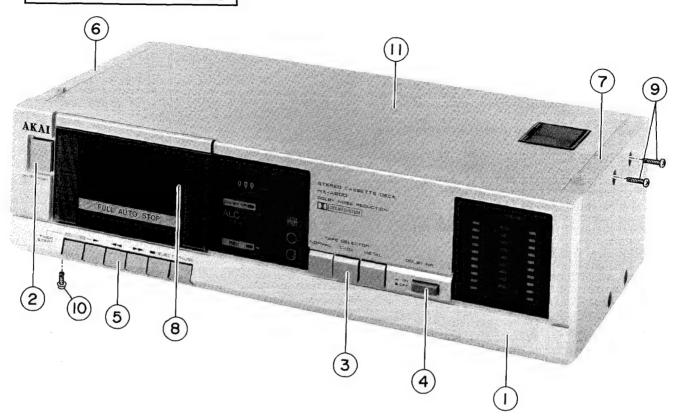
# ASSEMBLY BLOCK



#### 7. ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRI PTION
7-1	SP-359004	PANEL REAR HX-A200
7-2	MB-351605	BELT 0.8×D593 CRHS65
7-3	ZG-359249	SP REC
7-4	MZ-359250	JOINT REC
7-5	MC-353312	COUNTER MK395-043 (BLACK)
7-6	ZS-309315	T 2BR 30×10STL BNI
7-J901	EJ-356521	SOCKET CONNECTOR-B M1701-A 12P

# FINAL ASSEMBLY BLOCK



# 8. FINAL ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRIPTION
8 -1	BD-358999A	PANEL FRONT
8-1B	BD-358999B	PANEL FRONT-B
8-2	SK-343017C	KNOB POWER (2)
8-2B	SK-343017F	KNOB POWER-B
8-3	SK-359001A	KNOB TAPE SELECT
8-3B	SK-359001B	KNOB TAPE SELECT-B
8-4	SB-358882	BUTTON PUSH
8-5	SB-358886A	BUTTON OPERATION
8-6	BD-358994A	PANEL SIDE (L)
8-6B	BD-358994B	PANEL SIDE(L)-B
8-7	BD-358995A	PANEL SIDE (R)
8-7B	BD-358995B	PANEL SIDE(R)-B
8-8	BD-359000A	PANEL LID
8-8B	BD-359000B	PANEL LID-B
8-9	ZS-359179	PT BR30×12STL BNI C [J901 FIX]
8-10	ZS-359702	S T BR26×06STL BNI [MECHA.
		BOTTOM COVER SIX)
8-11	BC-358993E C	
8-11B	BC-358993J C	
		~

NOTE: SYMBOL FOR COLOR VARIATION

NON: STANDARD COLOR

B or BL: BLACK

#### RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

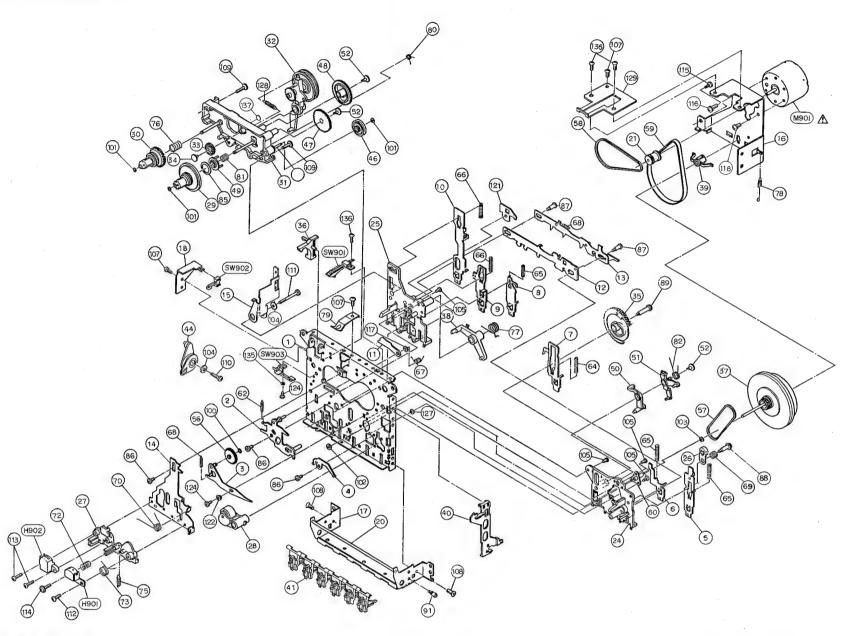
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REF.
     PART NO. DESCRIPTION
NO.
     BM-712825 A MOTOR (W/PULLEY) ASSY EG-500
 1
                                               AD-2
     BR-715919 SUPPLY REEL ASSY
     BR-715918 TAKE-UP REEL ASSY
     ED-357691 D LED GL-9HY23 YELLOW
 5 N ED-358085 D LED GL-9NG23 GRN
     ED-351881 D LED GL-9PR23 RED
     ED-349662 D SILICON DS135E-FA6 100/1.0A
     ED-344280 D SILICON H GMA-01-FY2 F05
 8
     ED-324014 D-ZENER H HZ11 B1
10
     ED-348014 D ZENER V HZ4A-1S7
     EH-336776 FILTER DB D07003K 100KHZ
11
     EI-349590 IC BA328OEC
12
13
     EI-347634
               IC HA12045
14 N EI-355388 IC IR2E27
15
     EI-337228 IC M5218L0
     EO-353311 COIL OSC 32-5021-12 100KHZ
16
17
     ER-318647 	⚠ R FUSE ERD2FC S10 1/4W 4R7J
     ES-715945 SW LEAF LSA-1119C
18
     ES-715944 SW LEAF LSA-1132 EAU
19
     ES-713179 SW LSA-1123-37
20
21
     ES-347966 SW PUSH ESB-649 01-2-2 N
22 N ES-358646 SW PUSH SUL121S 1-012-02N
23 N ES-359242 SW PUSH SUY12A 2-02-02S
24 N ES-358580 SW SLIDE CL108K
     ET-308472 TR 2SA1115 E,F,G
ET-348931 TR 2SB774 R,S,T
25
26
     ET-308977 TR 2SC2274K F
27
28
     ET-349705 TR 2SC2320 E.F.G
     ET-349272 TR 2SC3242A E,F
29
30
     ET-349366 TR 2SC3402
     EV-357619 R S-FIX H H0615C 3P 104
31
32 N EV-358829 R S-FIX H H0615C 3P 223
33 N EV-356581 R S-FIX H0615C 3P 331
     EV-357689 VR SLIDE 60P2SVOL A503
34
     HE-337047 HEAD E HAJAB3040A C
35
36
     HP-712824 HEAD R/P HY424528 SVK
37
     MB-712818 BELT AUTO
38 N MB-355124 BELT COUNTER
     MB-712820 BELT DRIVE
39
     MB-712819 BELT FR
40
41 N MC-358569 COUNTER MMP 382-016
     MI-715935 CLUTCH ARM ASSY
42
43
     MI-712813 GEAR AUTO
44
     MI-711710 GEAR C
45
     MI-712814 GEAR CAM AUTO
46
     MI-712804
                GEAR FF
     MI-712817 IDLER PLAY
48
     MI-712812
               PULLEY AUTO
49 N MZ-716577 MAIN CASE ASSY
```

#### "NOTE" N: New Parts

#### SYMBOL FOR DESTINATION

[A]: AAL (USA)
[B]: UK (England)
[C]: CSA (Canada)
[E]: CEE (Europe)
[S]: SAA (Australia)
[U]: U/T (Universal Area)
[V]: VDE (West Germany)

# MECHA (REC/PB) BLOCK

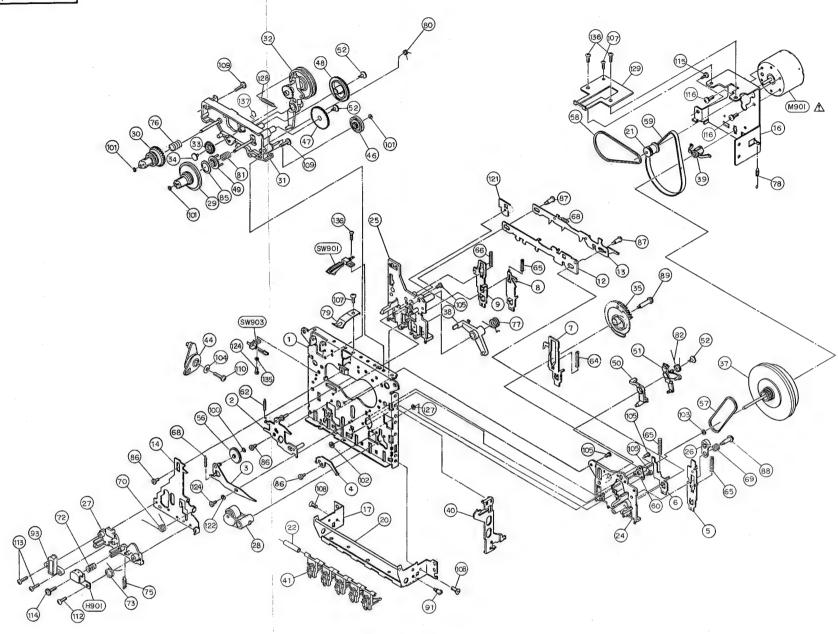


# 1. MECHA (REC/PB) BLOCK

			KEF.	PART NO.	DESCRIPTION	
REF. NO.	PART NO.	DESCRIPTION	NO.			
NO.			1-49	MI-715920	CLUTCH AUTO	
-1	BB-355186	MECHA AKI-96FMF	1-50	ML-716179	ARM AUTO(B)	
-24		LEVER HOLDER (A)	1-51	ML-716180	ARM AUTO LOCK	
-26		CAM PAUSE	1-52	ZW-716181	BUSH	
-27	HZ-716172	HEAD BASE	1-56	MI-712817	IDLER PLAY	
-28	BL-712799	PINCH ROLLER ARM ASSY	1-57	MB-712818	BELT AUTO	
-29		TAKE-UP REEL ASSY	1-58	MB-712819	BELT FR	
-30	BR-715919	SUPPLY REEL ASSY	1-59	MB-712820	BELT DRIVE	
-32		C LUTCH ARM ASSY	1-60	MZ-716577	MAIN CASE ASSY	
-33	MI-712804		1-67	ZG-716187	SP REC LEVER	
-34	MZ-749256	BUSH	1-68	ZG-716188	SP CAM	
-35	MI-711710	GEAR C	1-69	ZG-716189	SP PAUSE CAM	
-36	ML-712806	REC SENSOR	1-70	ZG-716190	SP HEAD CHASSIS	
-37		FLYWHEEL ASSY	1-72	ZG-749268	SP HEAD	
-38		ARM LOCK (H)	1-73	ZG-715921		
-39		HOLDER CAPSTAN	1-75	ZG-715940	SP HEAD RETURN	
-40		LEVER EJECT	1-76		SP BACK RENSION	
-41		BUTTON LEVER	1-77	ZG-716579		
-44	TC-712811	DAMPER ASSY	1-78		SP EJECT LEVER	
-46	MI-712812	PULLEY AUTO	1-79	ZG-712822	SP PACK	
-47	MI-712813	GEAR AUTO	1-80		SP AUTO SENSER	
-48		GEAR CAM AUTO	1-81	ZS-716355	SP AUTO CLUTCH	
					PARTS LIST -	

REF. NO.	PART N	O. DESCRIPTION	
1-82	ZG-716197	SP AUTO LOCK ARM	
1-85	TC-712823	FELT AUTO CLUTCH	
1-87	ZS-715982	SCREW(B)	
1-88	ZS-716203	SCREW SPECIAL (C)	
1-89	ZS-716204	SCREW SPECIAL (D)	
1-91	ZS-716580	SCREW SPECIAL	
1-112	ZS-536488	BID20X08STL CMT	
1-113	ZS-749292	BID20X8.5STL CMT	
1-114	ZS-749293	BID20X09STL CMT TW	
1-128	ZG-715922	SP CLUTCH ARM	
1-M901	BM-712825	⚠ MOTOR (W/PULLEY) ASSY	
		EG-500AD-2B	
1-SW901	ES-715944	SW LEAF LSA-1132EAU	
1-SW902	ES-713179	SW LSA-1123-37	
1-SW903	ES-715945	SW LEAF LSA-1119C	
1-H901	HP-712824	HEAD R/P HY424528 SVK	
1-H902	HE-337047	HEAD E HAJAB3040A C	
Note:			
Parts w	ill not be sı	applied if they are not listed in the	
parts list, even if they appear on the assembling illustra-			
tions with reference No.			

# MECHA (PB) BLOCK



# 2. MECHA (PB) BLOCK

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
2-1 2-22 2-24 2-26 2-27 2-28 2-29 2-30 2-32 2-33 2-34 2-35 2-37 2-39 2-40 2-41 2-44 2-46 2-47 2-48 2-49	MZ-716171 MZ-716172 BL-712799 BR-715918 BR-715919 MI-715933 MI-712804 MZ-749256 MI-711710 BF-712807	LEVER HOLDER (A) CAM PAUSE HWAD BASE PINCH ROLLER AM ASSY TAKE-UP REEL ASSY SUPPLY REEL ASSY CLUTCH ARM ASSY GEAR FF BUSH GEAR C FLYWEHEEL ASSY	2-50 2-51 2-52 2-56 2-57 2-58 2-59 2-60 2-68 2-69 2-70 2-72 2-73 2-75 2-76 2-77 2-78 2-79 2-80 2-81 2-82	ML-716180 ZW-716181 MI-712817 MB-712818 MB-712820 MZ-716577 ZG-716189 ZG-716189 ZG-749268 ZG-715921 ZG-716578 ZG-716578 ZG-716579 ZG-716194 ZG-716355	IDLER PLAY BELT AUTO BELT FR BELT DRIVE MAIN CASE ASSY SP CAM SP PAUSE CAM SP HEAD CHASSIS SP HEAD SP PINCH ROLLER SP HEAD RETURN SP BACK TENSION SP LOCK ARM SP EJECT LEVER SP PACK
					PARTS LIST

REF. NO.	PART N	O. DESCRIPTION	
2-85	TC-712823	FELT AUTO CLUTCH	
2-87	ZS-715982	S CREW (B)	
2-88	ZS-716203	SCREW SPECIAL (C)	
2-89	ZS-716204	SCREW SPECIAL (D)	
2-91	ZS-716580	SCREW SPECIAL	
2-93	MS-715941	TAPE GUIDE	
2-112	ZS-536488	BID20×08STL CMT	
2-113	ZS-749292	BID20×8.5STL CMT	
2-114	ZS-749293		
2-118	ZS-716576	SCREW SPECIAL MOTOR	
2-128	ZG-715922	SP CLUTCH ARM	
2-M901	BM-712825	⚠ MOTOR (W/PULLEY) ASSY EG-	
		500AD-2B	
2-SW90	1 ES-715944	SW LEAF LSA-1132EAU	
2-SW90	3 ES-715945	SW LEAF LSA-1119C	
2-H901	HP-712824	HEAD R/P HY424528 SVK	
Note:			
Parts v	vill not be s	upplied if they are not listed in the	
parts list, even if they appear on the assembling illustra-			
tions with reference No.			

#### 3. PC BOARD BLOCK

REF. PART NO.

DESCRIPTION

3-1 BA-T2086A020A PC PRE AMP BLK HX-A300W

#### 4. PRE AMP PC BOARD

REF. NO.	PART NO.	DESCRIPTION
4-IC3C1,		
IC302	EI-349590	IC BA3280EC
4-IC303	EI-337228	IC M5218L0
4-IC304	EI-347634	IC HA12045
4-TR103	EI-349705	TR 2SC2320 E,F,G
4-TR105		mp aggaca F.F.G
to TR107	ET-349705	TR 2SC2320 E,F,G
4-TR111 to TR114	ET-349705	TR 2SC2320 E,F,G
4-TR117	ET-349705	TR 2SC2320 E,F,G
4-TR203	ET-349705	TR 2SC2320 E,F,G
4-TR205		, ,-
to TR207	ET-349705	TR 2SC2320 E,F,G
4-TR211		
to TR214	ET-349705	TR 2SC2320 E,F,G
4-TR217	ET-349705	TR 2SC2320 E,F,G
4-TR301,		
TR 302	ET-308977	TR 2SC2274K F
4-TR 303	ET-349705	TR 2SC2320 E,F,G
4-TR304 4-TR305	ET-349272 ET-349366	TR 2SC3242A E,F TR 2SC3402
4-TR 306	ET-349306 ET-349705	TR 2SC3402 TR 2SC2320 E,F,G
4-TR308	ET-349705	TR 2SC2320 E,F,G
4-TR 309	ET-348931	TR 2SB774 R,S,T
4-TR310	ET-349705	TR 2SC2320 E,F,G
4-TR311	ET-308472	TR 2SA1115 E,F,G
4-TR314	ET-349705	TR 2SC2320 E,F,G
4-TR 318		
to TR320	ET-349366	TR 2SC3402
4-D303	ED-324014	D ZENER H HZ11 B1
4-D304 4-D305	ED-349662	D SILICON DS135E-FA6 100/1.0A
to D308	ED-344280	D SILICON H GMA-01-FY2 F05
4-D310,D311		D SILICON H GMA-01-FY2 F05
4-D316	ED-349662	D SILICON DS135E-FA6 100/1.0A
4-D317		•
to D319	ED-344280	D SILICON H GMA-01-FY2 F05
4-D320	ED-348014	D ZENER V HZ4A-1S7
4-D321,		
D322 4-SW301	ED-344280 ES-358580	D SILICON H GMA-01-FY2 F05 SW SLIDE CL108K
4-VR101,	25-550500	SW SEIDE CEIOOR
VR102	EV-356581	R S-FIX H0615C 3P 331
4-VR103	EV-358829	R S-FIX H H06155C 3P 223
4-VR104	EV-357619	R S-FIX H H0615C 3P 104
4-VR201,		
VR202	EV-356581	R S-FIX H0615C 3P 331
4-VR203	EV-358829	R S-FIX H H0615C 3P 223
4-VR204	EV-357619	R S-FIX H H0615C 3P 104
4-FL101	EH-336776	FILTER DB D07003K 100KHZ
4-FL102 4-FL201	EO-356809 H-336776	COIL FIX 1 100Z-121 100.00KC FILTER DB D07003K 100KHZ
4-FL201 4-FL202	EO-356809	COIL FIX 1 100Z-121 100.00KC
4-L101,	20-330009	COLE 11X 1 1002-121 100.00KC
L201	EO-348235	COIL FIX1 L-8 682J
4-T301	EO-353311	COIL OSC 32-5021-12 100KHZ
4-FR301	ER-318647	⚠ R FUSE ERD2FC S10 1/4W 4R7J
4-C102	EC-334068	C STY V F05 CQ09S 271J 50DC
4-C110	EC-334068	C STY V F05 CQ09S 271J 50DC
4-C146	EC-347228	C MC V F05 FM 470J 500DC
4-C202	EC-334068	C STY V F05 CQ09S 271J 50DC
4-C210 4-C246	EC-334068 EC-347228	C STY V F05 CQ09S 271J 50DC C MC V F05 FM 470J 500DC
4-C246 4-C309	EC-347228 EC-345817	C PP V F10 APH 272J 630DC
. 000)	_00.0017	T A 10 AMAIL W/ W/ 000DC

#### 5. METER PC BOARD

REF. NO.	PART NO. DESCRIPTION
	METER PC BOARD
5-IC501	EI-355388 IC IR2E27
5-D502	ED-351881 D LED GL-9PR23 RED
5-D503	ED-357691 D LED GL-9HY23 YELLOW
5-D504	
to D509	ED-358085 D LED GL-9NG23 GRN
5-D510	
to D513	ED-351881 D LED GL-9PR23 RED
5-SW501	ES-347966 SW PUSH ESB-649 01-2-2 N
5-VR501	EV-357689 VR SLIDE 60P2SV0L A503
5-R 502,	
R503	ER-333616 R CB H S15 FS RDS 1/2W 151J
	ASSEMBLY BLOCK
5-D501	ED-351881 D LED GL-9PR23 RED

#### 6. DUBBING PC BOARD

PART NO. DESCRIPTION

6-SW401 ES-359242 SW PUSH SUY12A 2-02-02S

#### 7. POWER SW PC BOARD

PART NO. DESCRIPTION

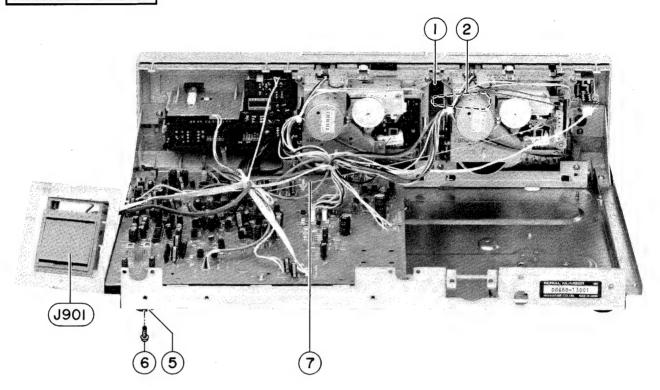
7-SW601 ES-358646 SW PUSH SUL121S 1-012-02N

#### NOTE:

PC PRE AMP BLK consists of following PC BOARDS.

- PRE AMP PC BOARD
- · METER PC BOARD
- · DUBBING PC BOARD
- · POWER SW PC BOARD

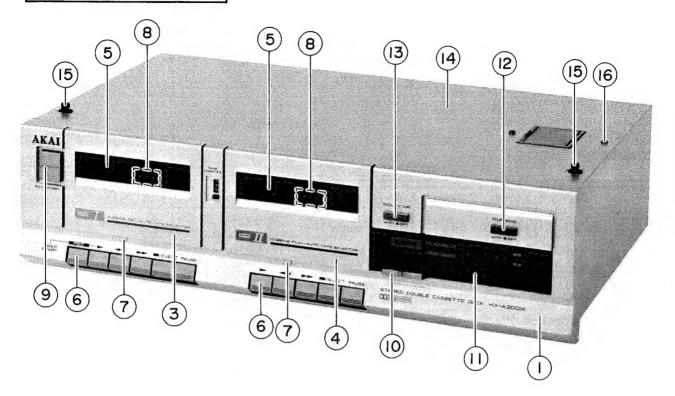
# ASSEMBLY BLOCK



#### 8. ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRIPTION
8-1	MC-358569	COUNTER MMP382-016
8-2	MB-355124	BELT COUNTER
8-3x	ZG-336615	SP PLATE CASSETTE HOLDER (B)
8-4x	ZG-360733	SP TORSION LID
8-5	SA-202118	FOOT
8-6	ZS-351186	ST BR30X08STL CMT C080
8-7	TC-355519	JOINT REC (B)
8-8x	SP-355163F	PANEL REAR HX-A300W
8-9 x	ZS-358803	ST BR30X08STL BNI C080 [PANEL
		REAR FIX]
8-10x	ZS-320906	ST BR30X06STL CMT [COVER UPPER
		FIX]
8-J901	EJ-351021	SOKCET CONNECTOR M1701 12P
8-J901B	EJ-356521	SOCKET CONNECTOR-B M1701-A 12P

#### FINAL ASSEMBLY BLOCK



#### 9. FINAL ASSEMBLY BLOCK

REF. NO.	PART NO.	DESCRIPTION
9 - 1	BD-355164C	PANEL FRONT HX-A300W
9-1B	BD-355164D	PANEL FRONT HX-A300W-B
9-2x	ZS-337783	PT CTS30×08STL CMT [MECHA BLK
		FIX]
9-3	BD-355128E	LID (3)
9-3B	BD-355128F	LID (3)-B
9-4	BD-355128G	LID (4)
9-4B	BD-355128J	LID (5)-B
9-5	SP-355129	WINDOW LID
9-6	SB-358886A	BUTTON OPERATION
9-7	BC-355156A	COVER AZIMUTH
9-7B	BC-355156B	COVER AZIMUTH-B
9-8	SZ-357722	REFLECTOR
9-9	SK-343017C	KNOB POWER (2)
9-9B	SK-343017F	KNOB POWER-B
9-10	SK-355157A	KNOB REC
9-10B	SK-355157B	KNOB REC-B
9-11	SP-355158	WINDOW METER
9-12	SK-355159A	KNOB PUS H [DUBBING]
9-13	SK-355159B	KNOB PUSH (2) [DOLBY NR]
9-14	SP-355161C	COVER UPPER (2)
	SP-355161D	
		CLIP 0816
9 -16	ZS-332009	PT BR30×06ST

SYMBOL FOR COLOR VARIATION

NON: STANDARD COLOR

B or BL: BLACK

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AX-332567C AX-332567D BC-B353247 BC-353231 F BD-P1047A020A BD-P1047A020B BD-353231D BM-360085 ED-337391	4-31B 4-1 4-M901 3-D1	ET-328844 ET-328844 ET-330225 ET-330225 ET-742510 ET-742510 EV-780138	1-Q1 1-Q2 1-Q10 1-Q7 1-Q8 1-Q11 1-Q4 1-Q3	SK-358011A SK-358011B SP-359109 T P-B332568X TP-B358014 TP-P1034A080 TP-P1037A040A TP-348266A TP-348266B	4-39 A 4-25 A 4-9 4-40B 4-40A	ZG-358951 ZG-358952 ZS-310984 ZS-332009 ZS-349118 ZS-358930 ZW-290283 ZW-325521 ZW-331536	4-3 4-34 4-12 4-36 4-19 4-10 4-26 4-8 4-14		
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BA-A3052A02	20D 1-3D	ED-301911	4-D13	EO-337523	2-L2	ET-349081	2-TR20		
BA-A3052A02	20E 1-3E	ED-301911	4-D14	EO-337598	2-T1	ET-349081	2-TR21		
BA-A3052A02	20F 1-3F	ED-301911	4-D1	EO-337599	2-T2	ET-349081	2-TR3		
BA-A3052A03	30A 1-1A	ED-301911	4-D3	EO-337640	3-T1	ET-349081	2-TR18		
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BA-A3052A03	30D 1-1D	ED-301911	4-D5	EO-349462	3-L4	ET-351853	2-TR13		
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BA-F0141A01		ED-344280	2-D6	EO-359062	2-T4	ET-353366	2-TR15		
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BD-A3052A05		ED-349448	3-D3	ER-360146	2-R47	ET-353899	2-TR8		
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ED-337265	4-D103	EJ-336905	2-J1	ET-353898	2-TR11				
ED-337391	6-D5	EJ-349061	5-TM201	ET-353898	2-TR12				
ED-337391	6-D6	EJ-356521	8-J901	ET-353899	2-TR2				

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BB.355186	PART NO. REF. NO.	PART NO.	REF NO.	PART NO.	REF. NO.	PART NO.	REF. NO.	PART NO.	REF. NO.
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DD-355128E   9-3   DD-35508B   ED-336776   4-FL01   ET-349705   4-TR304   ML-716175   1-38   ZC-716188   1-68   DD-355128J   9-4   EH-336776   4-FL01   ET-349705   4-TR304   ML-716179   2-50   ZC-716189   1-69   DD-355128J   9-4B   EL-337228   4-IC303   ET-349705   4-TR310   ML-716179   2-50   ZC-716189   1-69   DD-355128J   9-4B   EL-33728   4-IC303   ET-349705   4-TR310   ML-716180   2-51   ZC-716190   1-70   DD-355128J   DD-35223J   DD-355128J   DD-35223J   DD-3523J   DD-35223J   DD-3523J					4-TR217	ML-712809	2-40	ZG-716187	1-67
BD-355128F   9-3B   EH-336776   FEF-1349705   FET-349705   FET-34970	200000		5-D506		4-TR303	ML-716175	1-38	ZG-716188	1-68
BD-355128G   9-4B   EH-336776   4-FR201   ET-349705   4-TR310   ML-716979   2-50   GZ-716189   2-69   ML-716180   1-51   GZ-716189   2-69   ML-716180   2-51   ML-7			4-FL101		4-TR 306	ML-716179	1-50	ZG-716988	2-68
BD-355164D	22 00,022			ET-349705	4-TR310	ML-716979	2-50	ZG-716189	1-69
BD-355164C				ET-349705	4-TR314	ML-716180	1-51	ZG-716189	2-69
BD-355164D 9-1B BF-712807 1-37 BF-712807 2-37 BF-712807 2-38 BF-712807 2-39 BF-712808 2-39 BF-712809 2-30 BF-715919 2-30 BF-71	DD-5551205 7 12								
BB-355164D 9-1B BF-712807 3-7 BF-712807 2-37 BL-712799 1-28 BL-712799 2-28 BM-721825 1-4901 BR-715918 1-29 BR-715918 2-29 BR-715919 1-30 BR-7	BD 355164C 0-1	EI-347634	4-IC304	ET-349705	4-TR214	ML-716180	2-51		_
BF-712807   1-37   BF-712807   1-38   BF-712807   1-38   BF-712807   1-38   BF-712807   1-28   BF-712807				ET-349705	4-TR207	ML-716375			
BB-712807 2-37 E1-355888 5-ICS01 ET-349705 4-TR 308 MS-715941 2-93 ZG-716194 2-78 E1-351021 8-J901 B1-712799 1-28 BM-721825 1-M901 BC-348235 4-L101 EV-356581 4-VR202 MZ-716171 1-26 ZG-716197 2-82 MZ-715918 1-29 E0-348235 4-L201 VE-356581 4-VR202 MZ-716171 1-26 ZG-716197 2-82 MZ-715918 2-29 E0-353311 4-T301 EV-356581 4-VR202 MZ-716171 1-26 ZG-716197 2-82 MZ-715918 2-29 E0-356809 4-FL02 VE-356581 4-VR202 MZ-716171 1-26 ZG-716197 2-82 MZ-715918 2-29 E0-3536809 4-FL02 VE-356581 4-VR202 MZ-716171 1-26 ZG-716197 2-82 MZ-715918 2-29 E0-3536809 4-FL02 VE-356581 4-VR202 MZ-716171 1-26 ZG-716197 2-82 MZ-715919 1-30 E0-356809 4-FL02 VE-356581 4-VR202 MZ-716171 1-26 ZG-716578 2-76 MZ-715919 2-30 EE-318647 4-FR301 EV-356581 4-VR202 MZ-716577 2-60 ZG-716578 2-76 MZ-715919 2-30 ER-318647 4-FR301 EV-357619 4-VR204 MZ-716577 2-60 ZG-716578 2-76 MZ-749256 2-34 ZG-746578 2-76 MZ-749256 2-34 ZG-749268 1-72 ZG-34068 4-C102 ER-333616 5-R502 EV-358629 4-VR203 MZ-716178 2-41 ZG-716579 2-77 ZG-749268 2-72			4-IC302	ET-349705	4-TR117	ML-716375	2-24		
BR-71279   1-28   E1-351021   S-1901   ET-349705   4-TR111   MZ-712808   1-39   ZG-716194   1-80   L-12799   L-137091   L-12825   L-1901   ED-348235   4-L101   EV-356581   4-VR102   MZ-712808   2-39   ZG-716194   1-80   L-12799   L-12825   L-1901   ED-348235   4-L101   EV-356581   4-VR102   MZ-716171   1-26   ZG-716197   1-82   L-12824   L-129   ED-348235   4-L101   EV-356581   4-VR101   MZ-716577   1-60   ZG-716197   1-82   L-12824   L-128				ET-349705	4-TR308	MS-715941	2-93		
BB712799   2-28   BM-721825   1.4901   BC-348235   4-1201   BC-348235   4-1201   VE-356581   4-VR201   VE-36577   1-60   VE-716578   2-76   VE-716579   2-77   VE-7				ET-349705	4-TR111	MZ-712808	1-39	ZG-716194	1-80
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BM-712825   2-M901   BR-715918   1-29   EO-348235   4-L301   VE-356581   4-VR202   MZ-716171   2-26   ZG-716197   2-82   EO-356809   4-FL102   EV-357619   4-VR101   MZ-716577   1-60   ZG-716578   2-76   BR-715919   2-30   ER-318647   4-FR301   EV-357619   4-VR204   MZ-716577   2-60   ZG-716578   2-76   BR-715919   2-30   ER-318647   4-FR301   EV-357619   4-VR204   MZ-716577   2-60   ZG-716578   2-76   ZG-716579   2-77   ZG-71						MZ-716171	1-26	ZG-716197	1-82
BR-715918   1-29   EC-355311   4-T301   EV-356881   4-VR101   MZ-716577   1-60   ZG-716578   1-76   ZG-716578   2-76   ZG-716579   ZG-716578   ZG-716578   ZG-716579   ZG-7165						MZ-716171	2-26	ZG-716197	2-82
BR-715918 2-29 EC-356809 4-FL102 EV-357619 4-VR104 MZ-716577 2-60 ZG-716578 2-76  BR-715919 1-30 EC-356809 4-FL202 EV-357619 4-VR204 MZ-716582 2-22 ZG-716579 1-77  BR-715919 2-30 ER-318647 4-FR301 EV-357689 5-VR501 MZ-749256 1-34 ZG-749268 1-72  EC-334068 4-C102 ER-333616 5-R502 EV-358829 4-VR103 SA-202118 8-5 ZG-749268 1-72  EC-334068 4-C202 ES-347966 5-SW501 HE-337047 1-H902 BR-716178 1-41 ZS-320906 8-10x  EC-334068 4-C202 ES-348580 4-SW301 HP-712824 1-H901 SR-716178 2-41 ZS-332009 9-16  EC-344280 4-D303 ES-715944 1-SW901 MB-355124 8-2 SK-355157A 9-10 ZS-358803 8-9x  ED-344280 4-D305 ES-715945 1-SW903 MB-712818 1-57 SK-355157B 9-10B ZS-515982 1-87  ED-344280 4-D308 ET-308472 4-TR311 MB-712820 4-D308 ET-308472 4-TR301 ED-344280 4-D310 ET-308977 4-TR301 ED-344280 4-D310 ET-349366 4-TR305 MB-712810 1-99  ED-344280 4-D319 ET-349366 4-TR305 MI-712810 1-99  ED-344280 4-D319 ET-349366 4-TR305 MI-712810 1-99  ED-344280 4-D319 ET-349366 4-TR305 MI-712812 1-46  ED-344280 4-D319 ET-349366 4-TR305 MI-712812 1-46  ED-344280 4-D319 ET-349366 4-TR305 MI-712812 1-46  ED-344280 4-D316 ET-349705 4-TR301 MI-712804 1-35  ED-344280 4-D316 ET-349705 4-TR301 MI-712812 1-46  ED-331881 5-D510 ET-349705 4-TR301 MI-712812 1-46  ED-331881 5-D510 ET-349705 4-TR311 MI-712812 1-46  ED-331881 5-D510 ET-349705 4-TR311 MI-712812 1-46  ED-331881 5-D510 ET-349705 4-TR311 MI-712817 1-56  ED-31881 5-D512 ET-349705 4-TR313 MI-712817 1-56  ED-31881 5-D512 ET-349705 4-TR313 MI-712817 1-56  ED-31881							1-60	ZG-716578	1-76
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ED-551661 5-D512 E1-549705 4-TR115 27-549705 2.70									
1ED 251001 ED512 1ET 240705 4-1K114   MI-/17X1 / 250   ///-/1/0/4 4*/7		ET-349705	4-TR113	MI-712817	2-56	ZG-712822	2-79		
ED-331001 3-D313 E1-349/03 4-1K111 IM /1201/									
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# AKAI

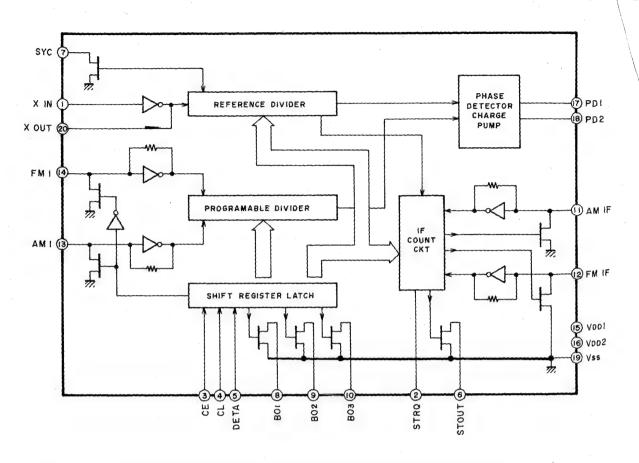
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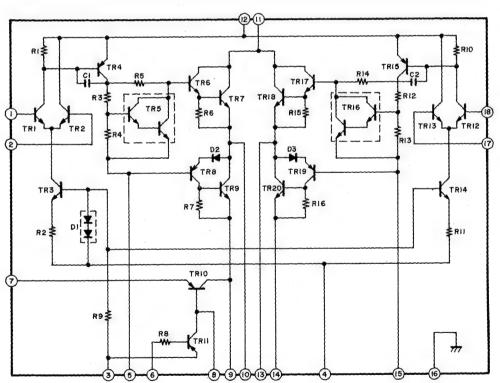
MODEL AP-A100/C, AP-A200/C, AT-A200/L, AM-A200, HX-A200, HX-A300W

# SCHEMATIC DIAGRAM AND PC BOARD

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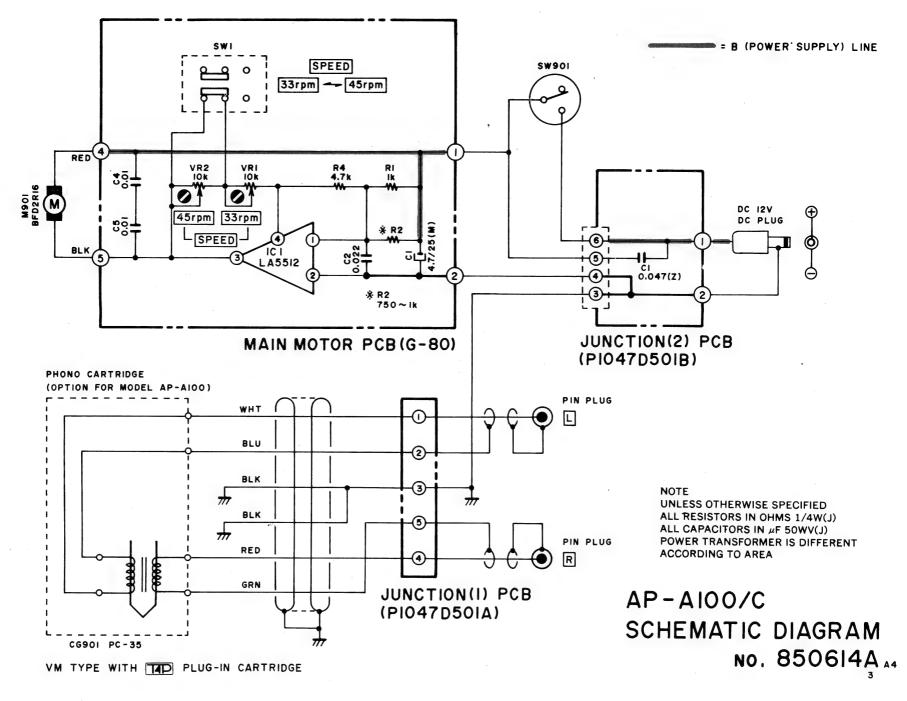


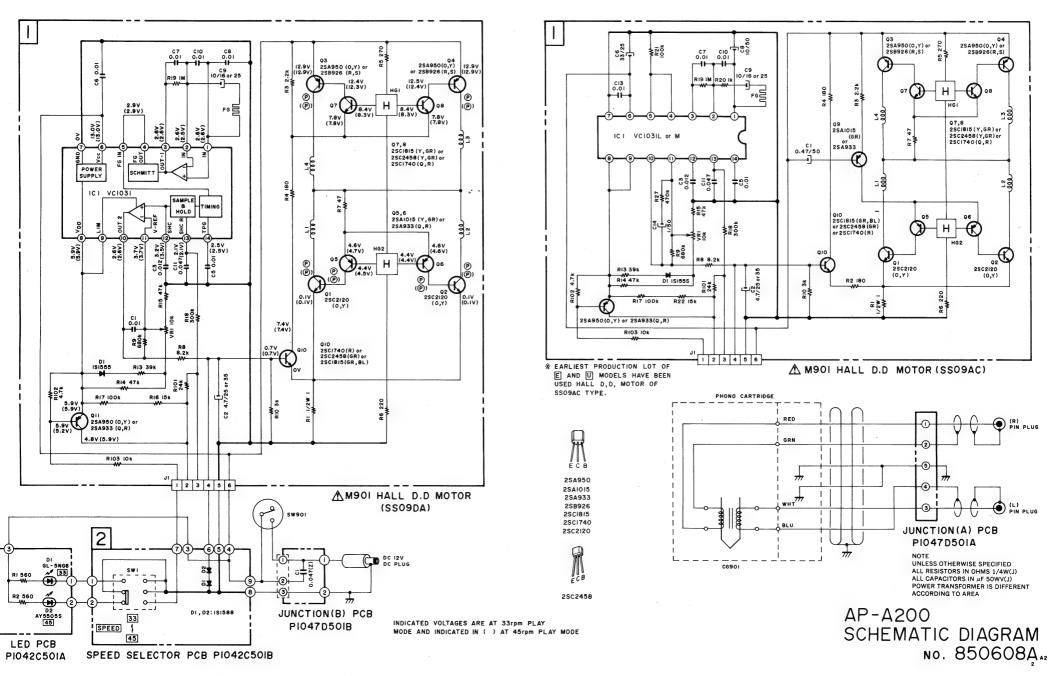


Y CHANNELS (0	1 16 2 15 3 14 4 13 5 12 6 11 7 10 8 9	- VDD - 2 X CHANNELS IN/OUT - COMMON "X" OUT/IN - 0 X CHANNELS - 3 IN/OUT - A - B

INHIBIT	<b>A</b> (©)	B 9	"ON" CHANNEL
L	L	Ĺ	OX,OY
L	Н	L	IX,IY
L	L	Н	2X,2Y
L	H	Н	3X,3Y
Н	Х	Х	NONE

X=DON'T CARE



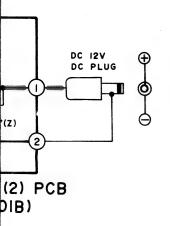


2SC2

Q1,2--Q3,4--Q5,6--Q7,8,10

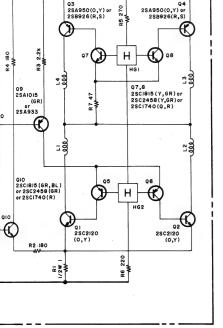
B • • •

= B (POWER SUPPLY) LINE

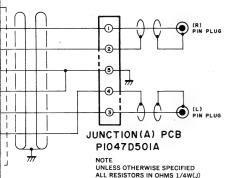


NLESS OTHERWISE SPECIFIED LL RESISTORS IN OHMS 1/4W(J) LL CAPACITORS IN #F 50WV(J)
OWER TRANSFORMER IS DIFFERENT CCORDING TO AREA

# -A100/C HEMATIC DIAGRAM No. $850614_{\frac{1}{3}}^{A_4}$

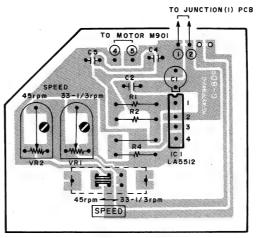


901 HALL D.D MOTOR (SSO9AC)

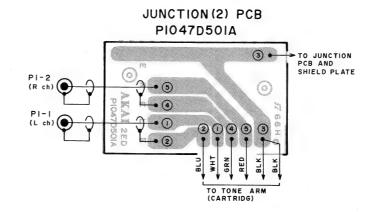


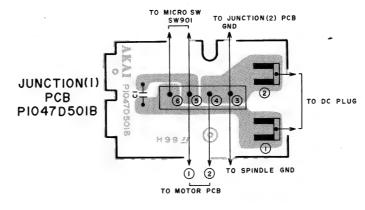
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN #5 SOWY(J)
POWER TRANSFORMER IS DIFFERENT
ACCORDING TO AREA

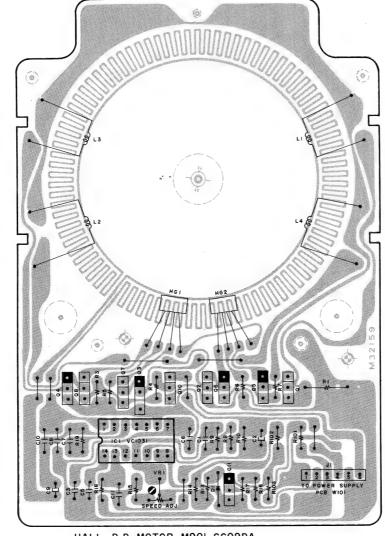
AP-A200 SCHEMATIC DIAGRAM NO. 850608AA2



MOTOR PCB







HALL D.D MOTOR M901 SS09DA

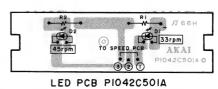




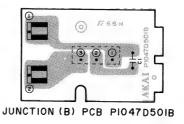
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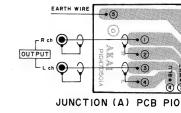
25C2120

2SC2458



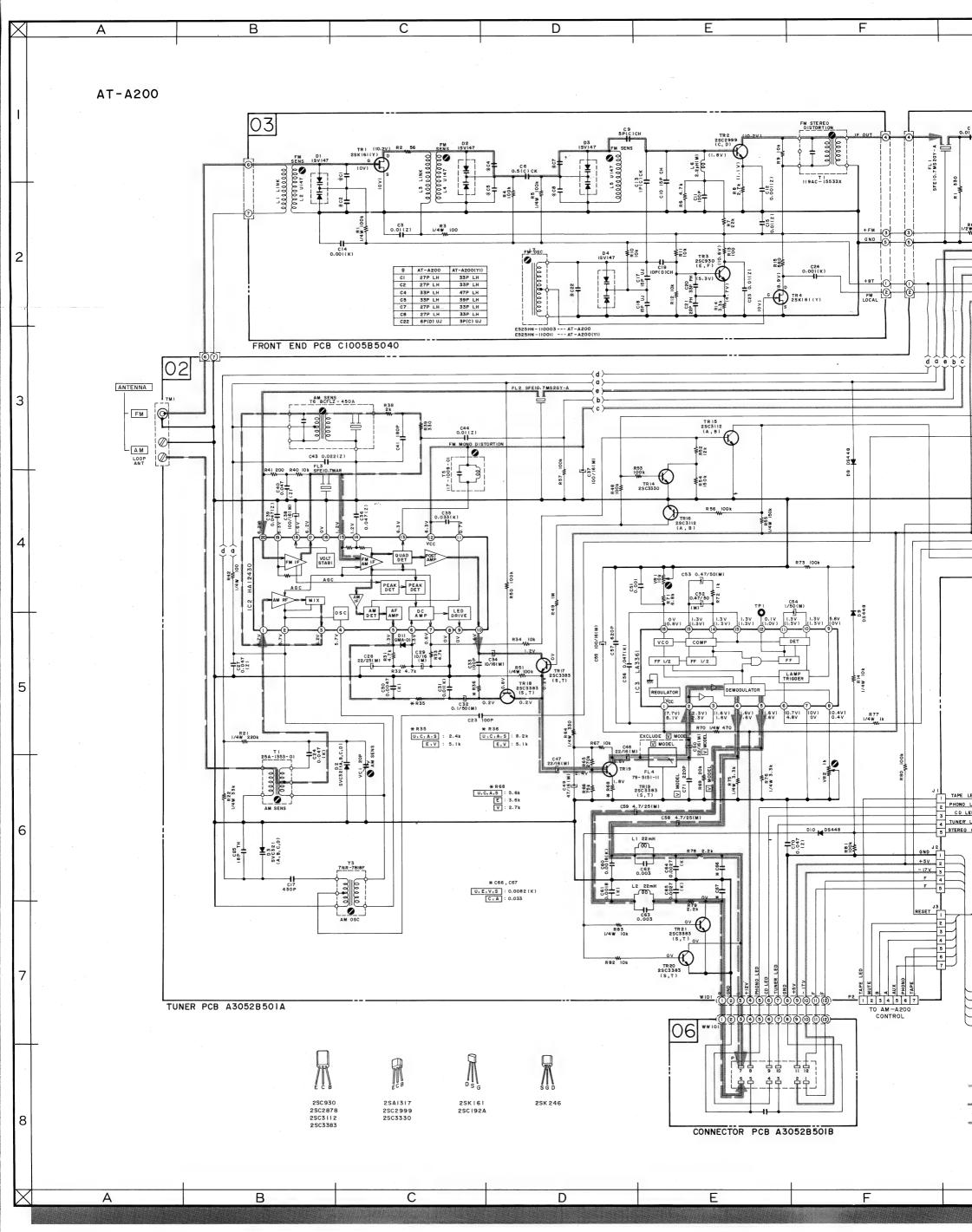


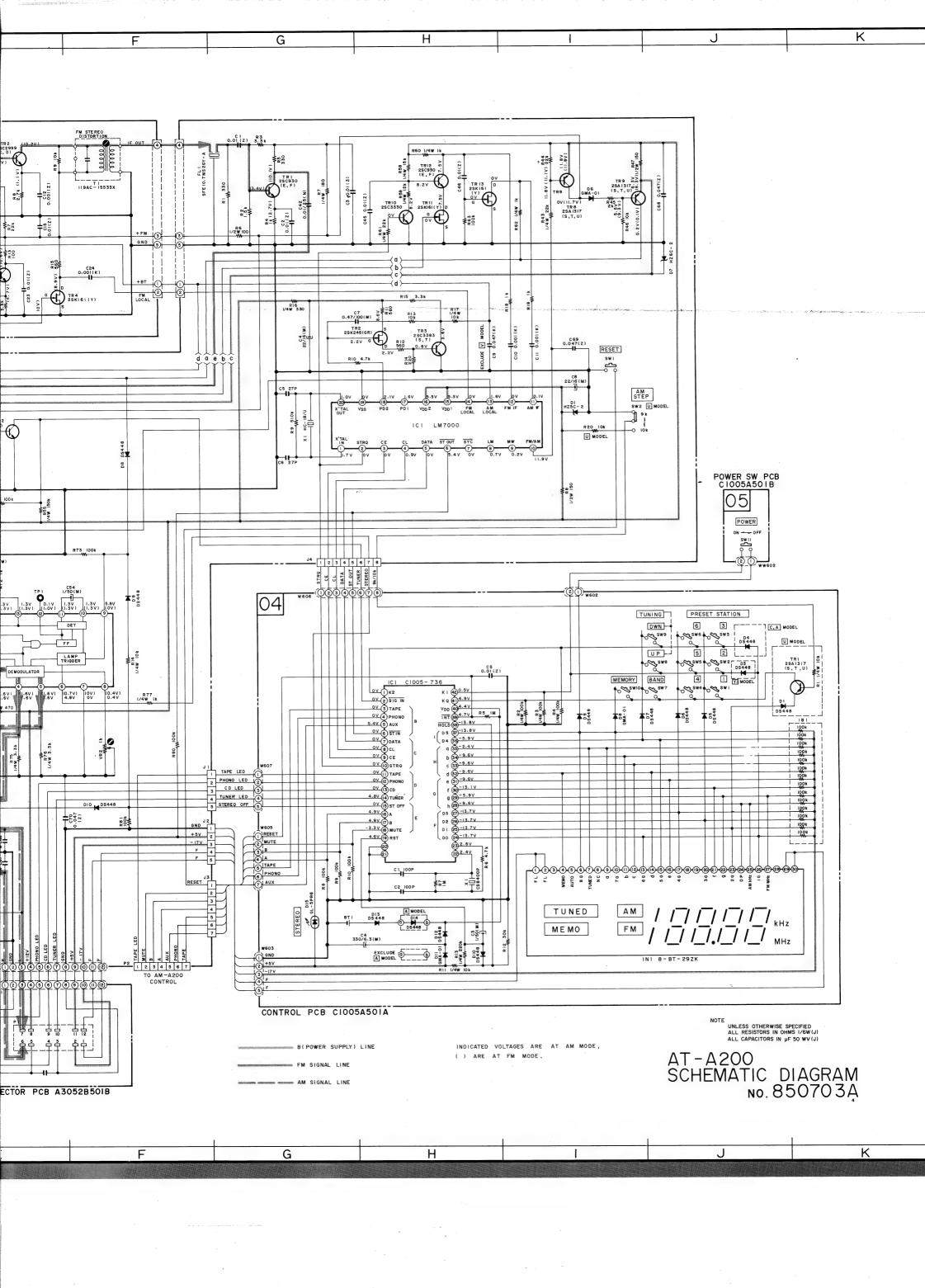


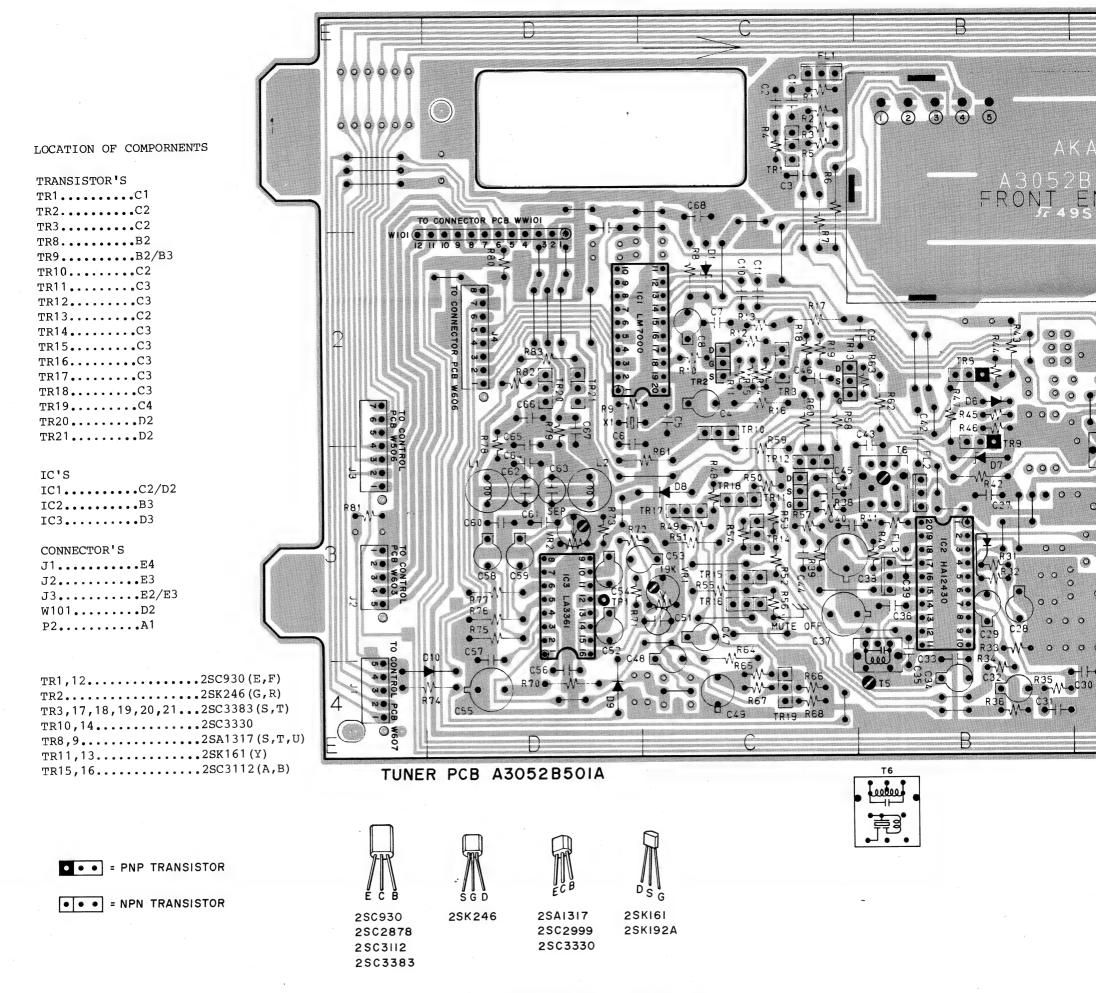


WARNING: MINDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

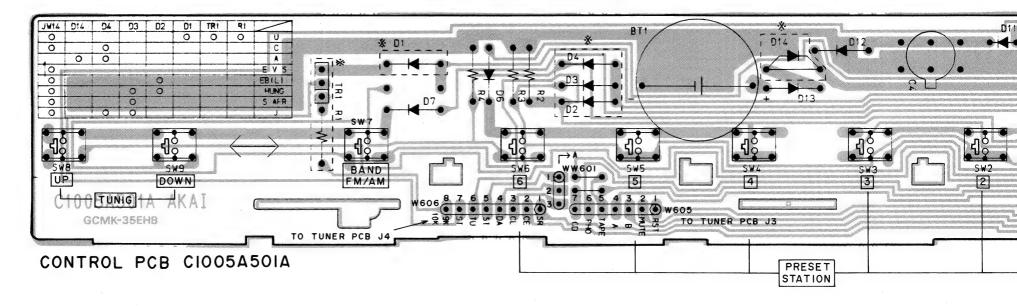
AVERTISSEMENT: MIL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL. NE REMPLACER QUO DES PIÈCES RECOMMANDEES PAR LE FABRICANT

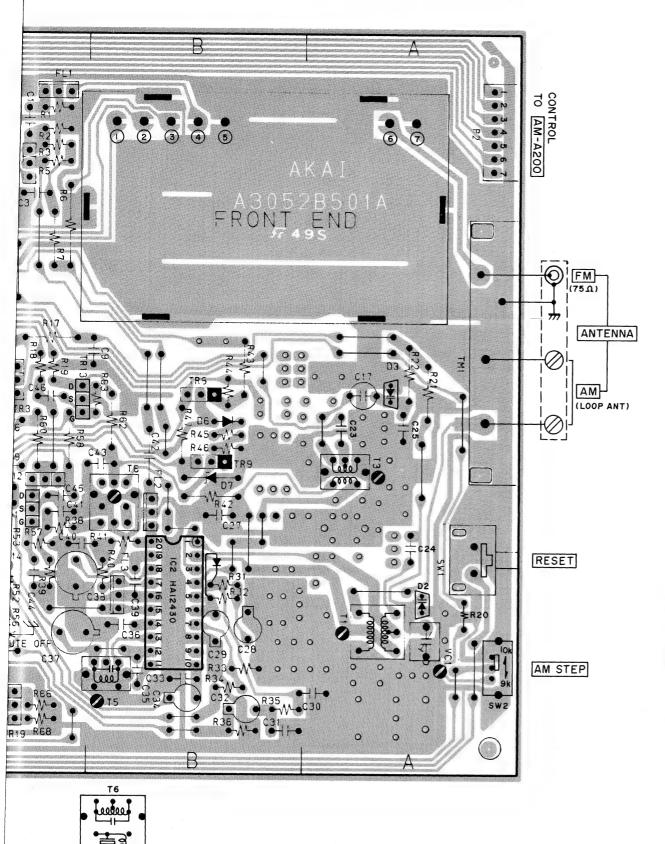


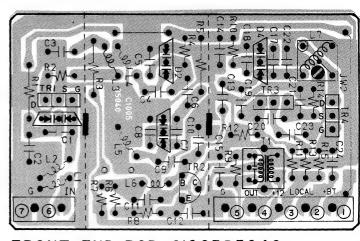




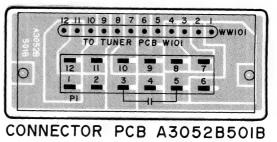
\* : SEE CHART OF DISTINATION

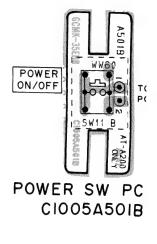




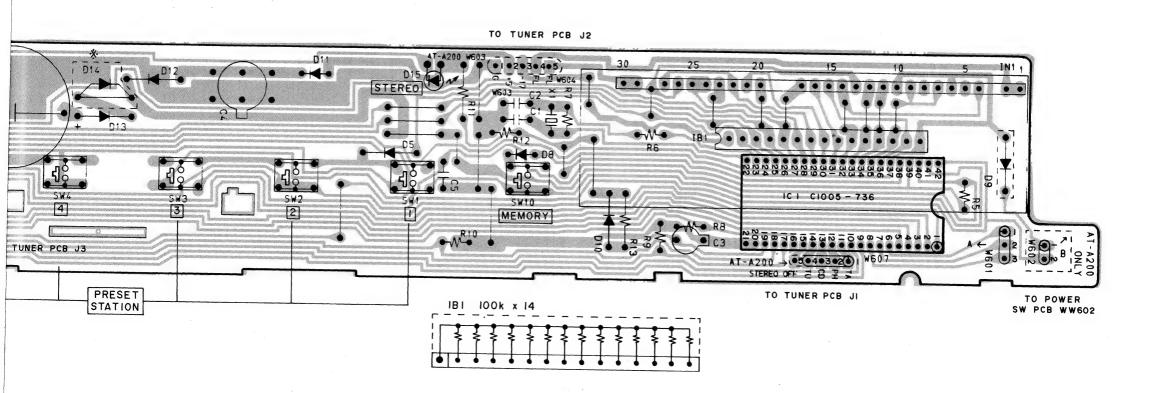


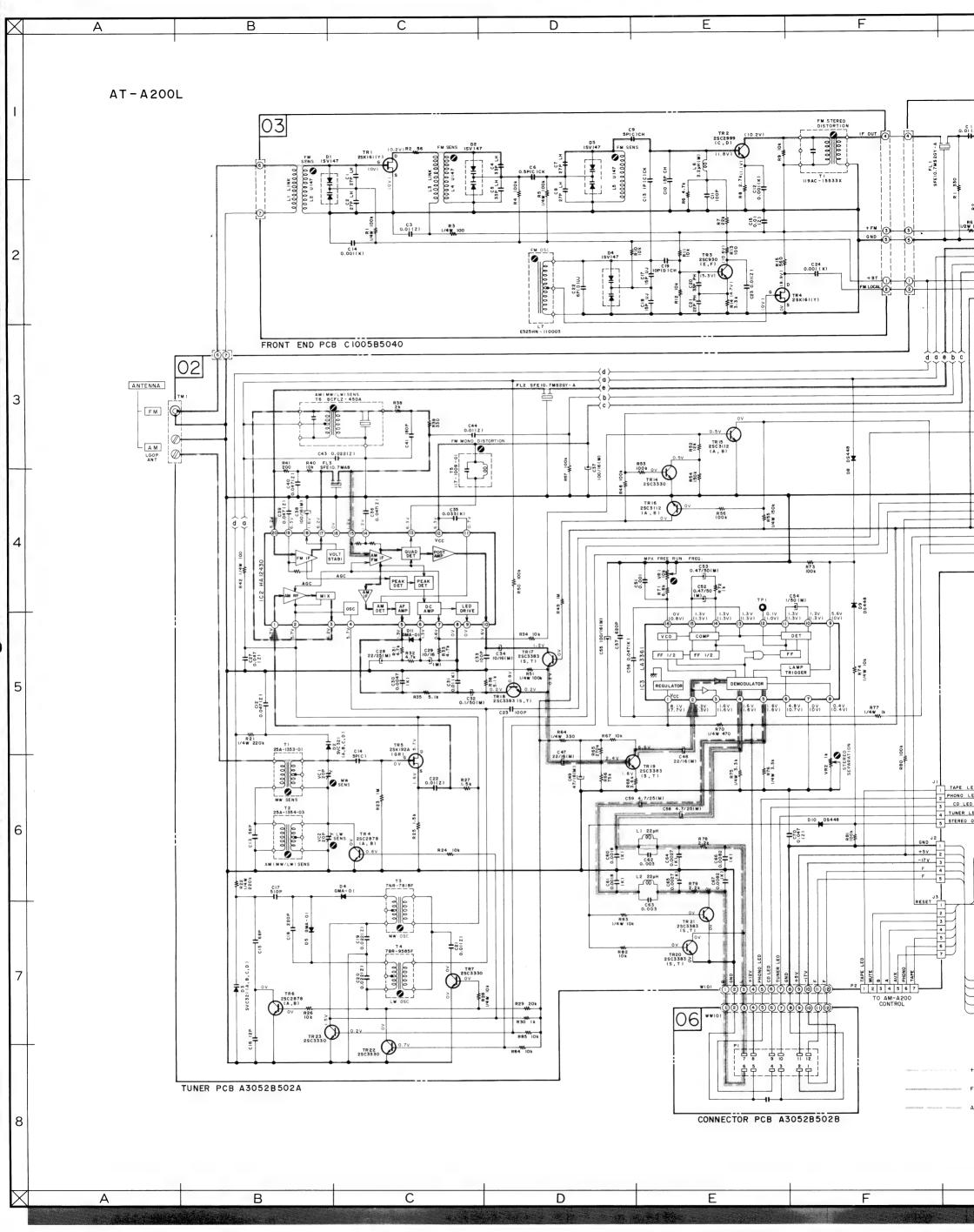
FRONT END PCB CI005B5040

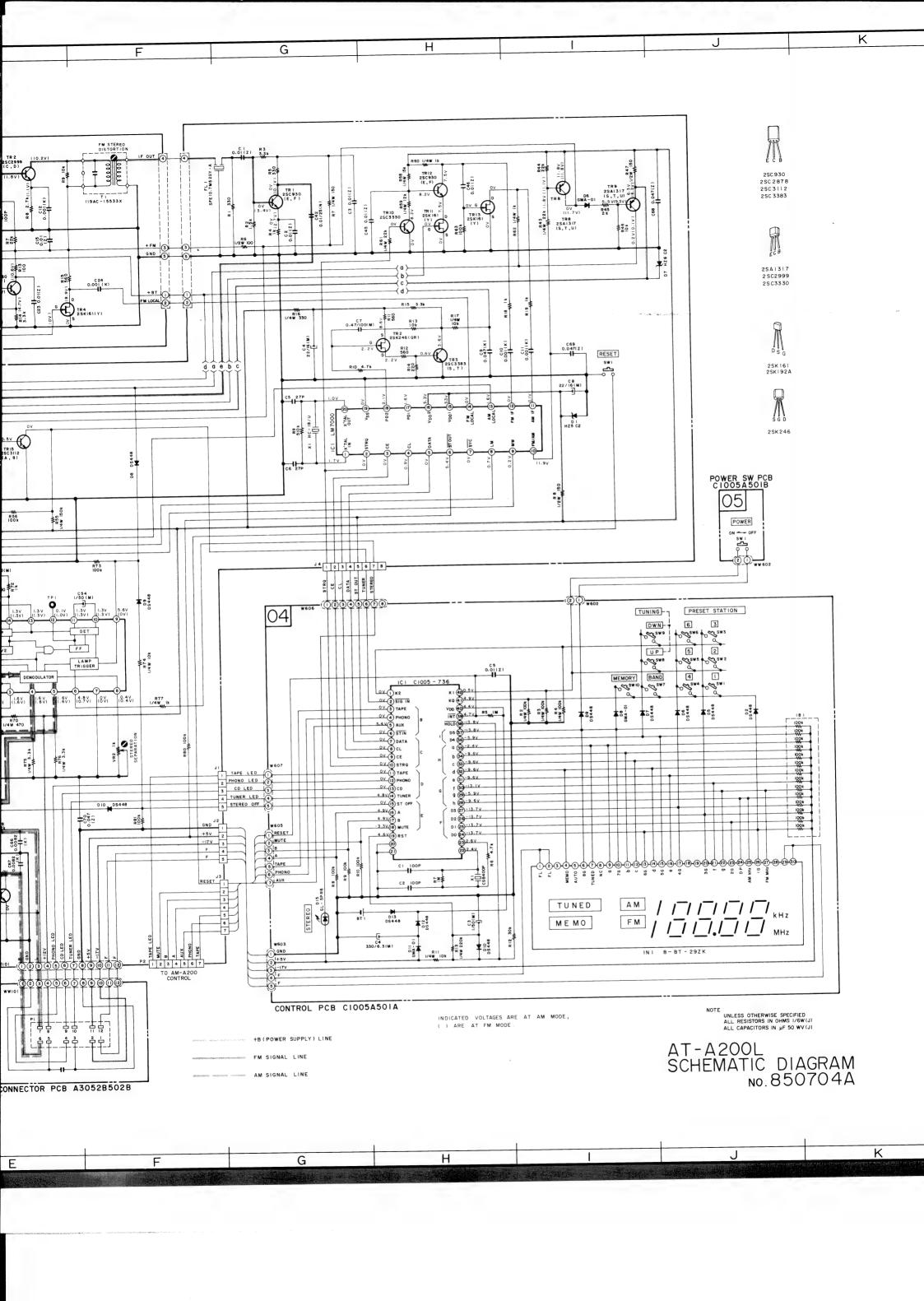


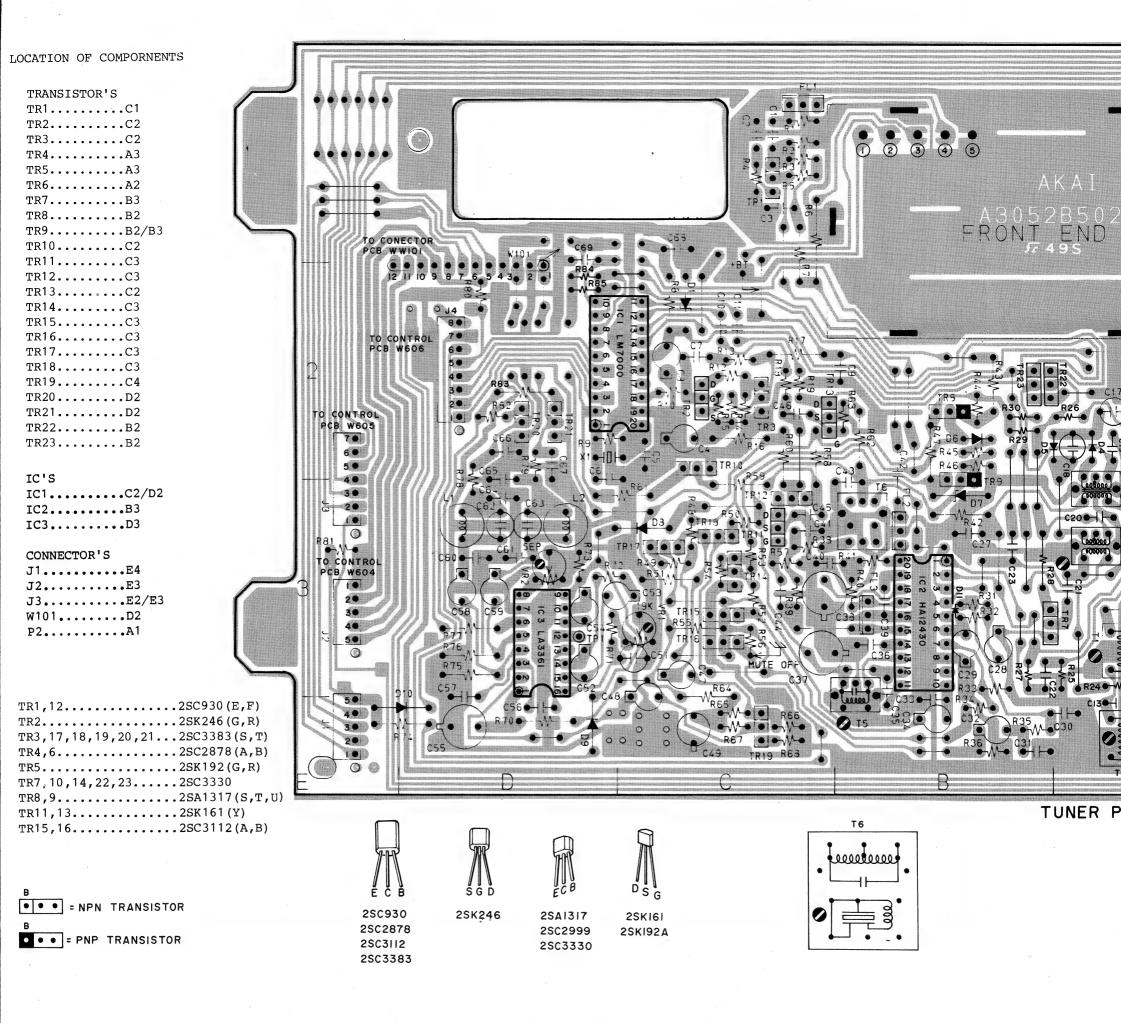


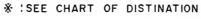


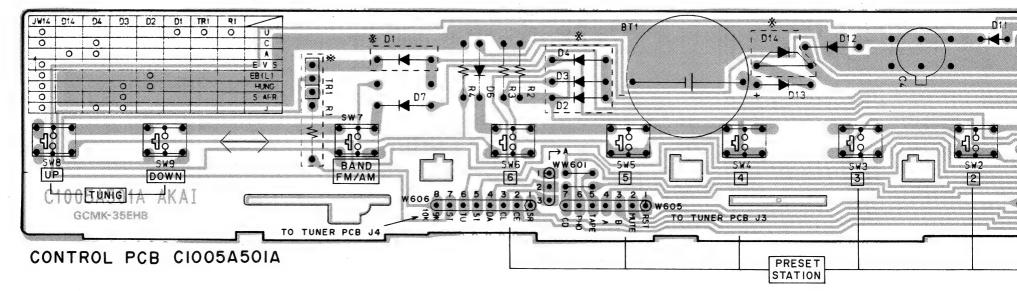


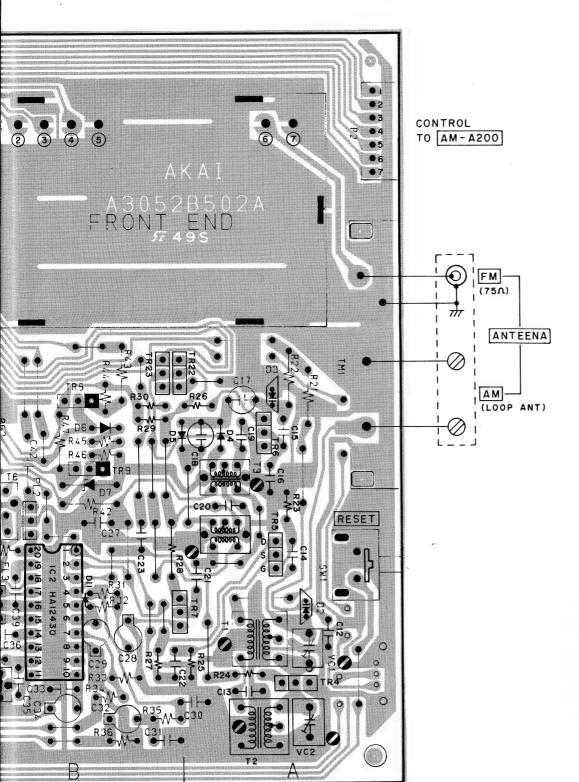


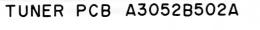




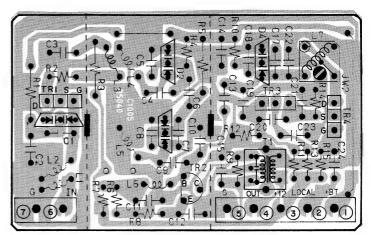




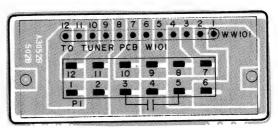




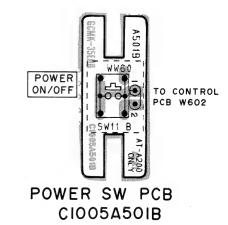
لمعمد



FRONT END PCB CI005B5040



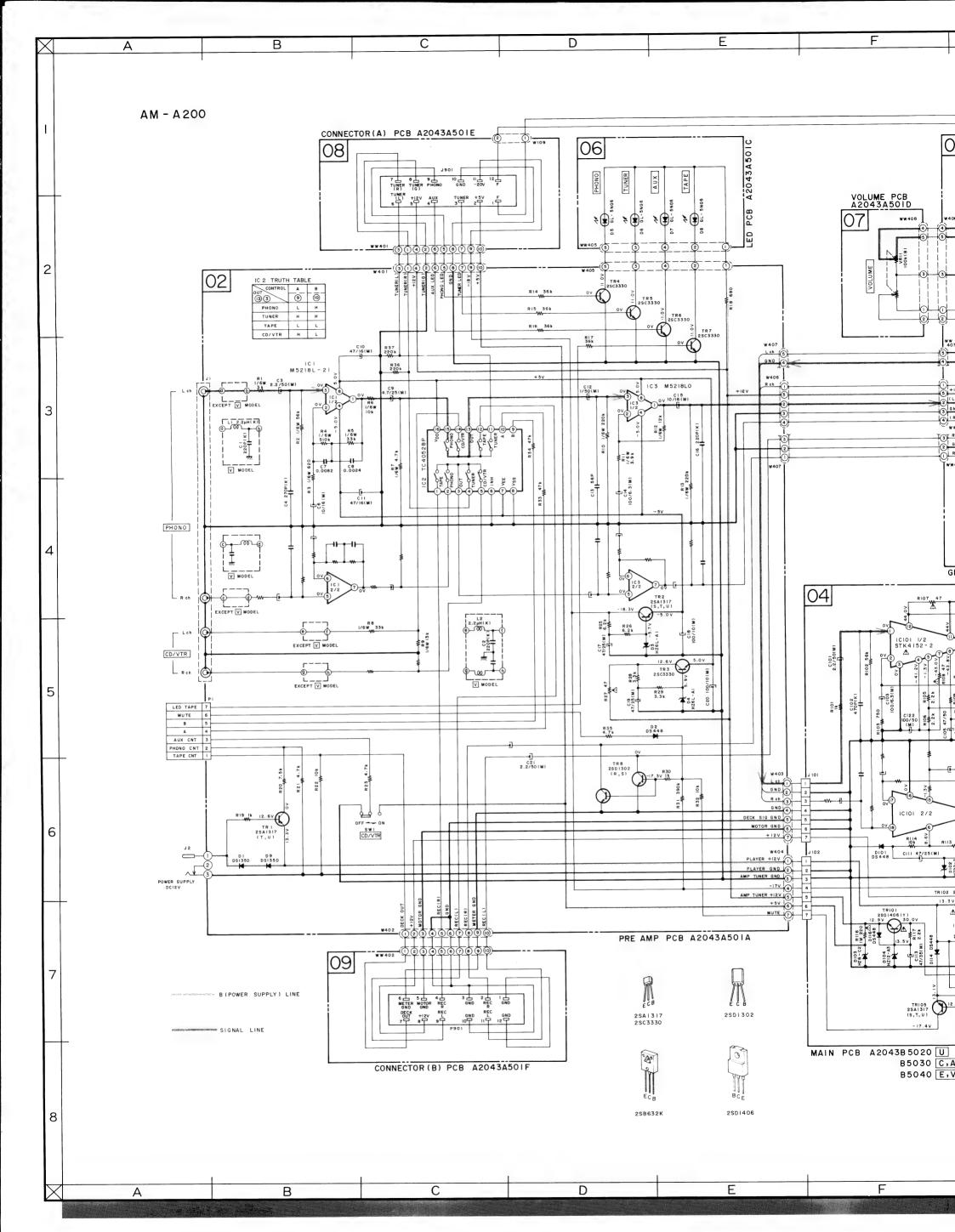
CONNECTOR PCB A3052B502B

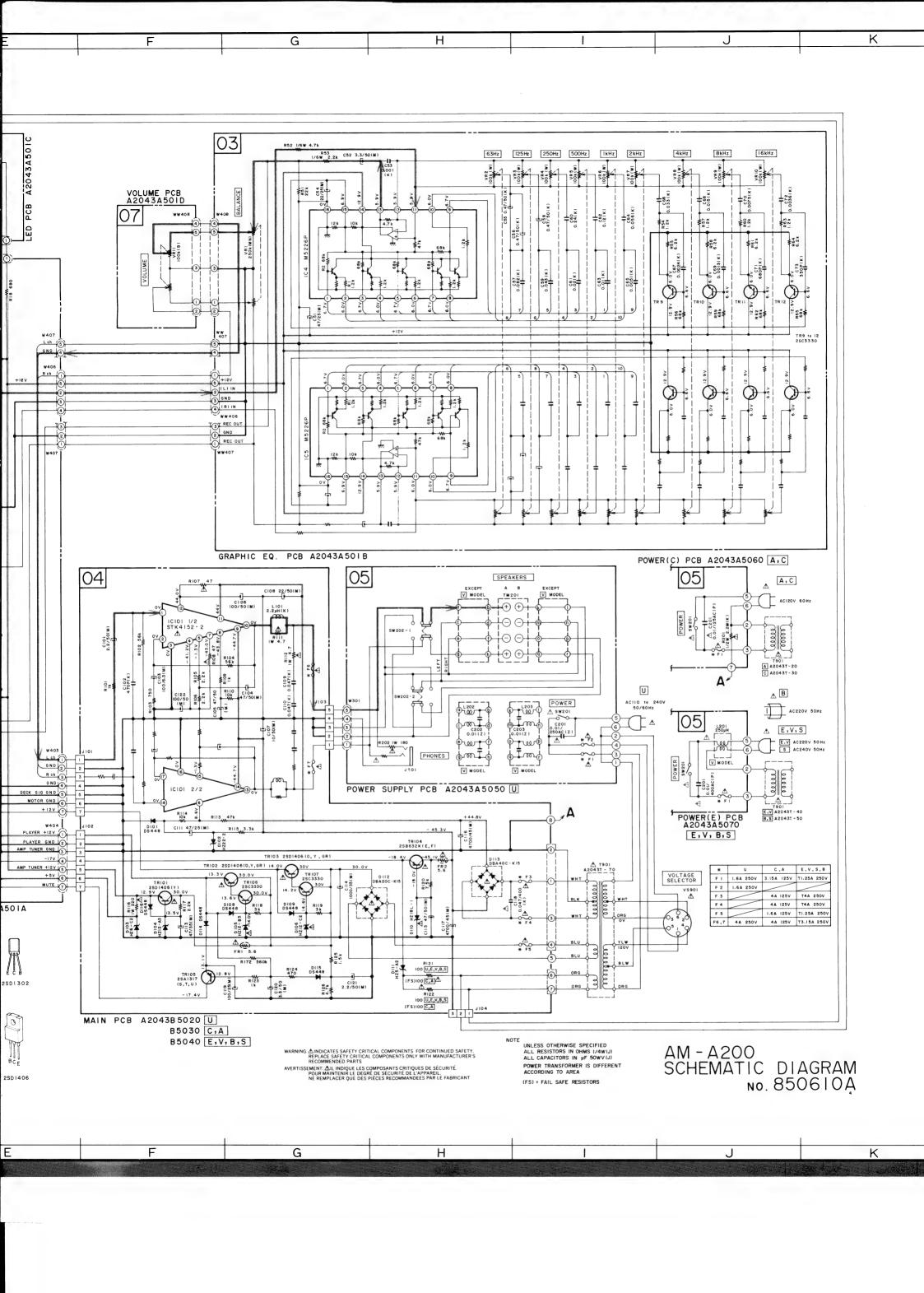


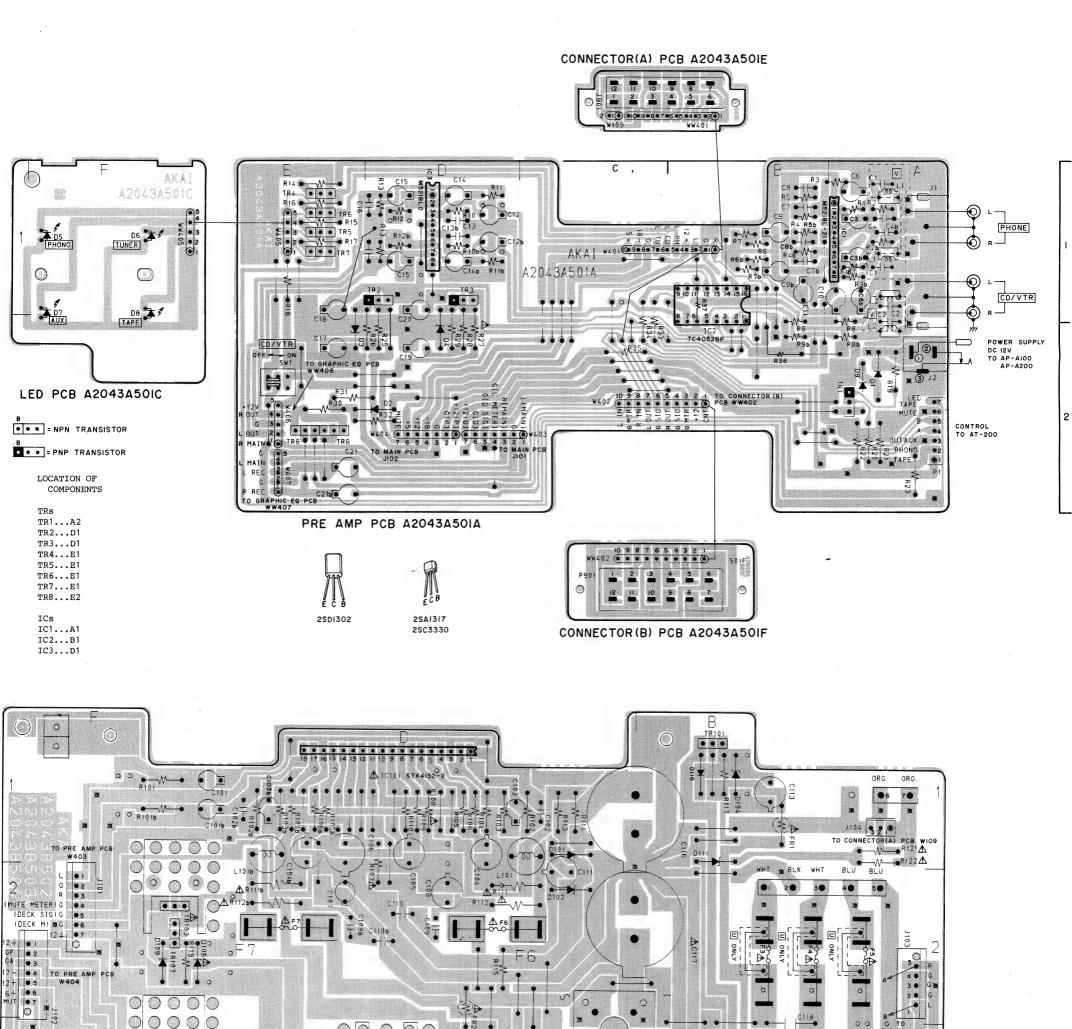
TO TUNER PCB J2

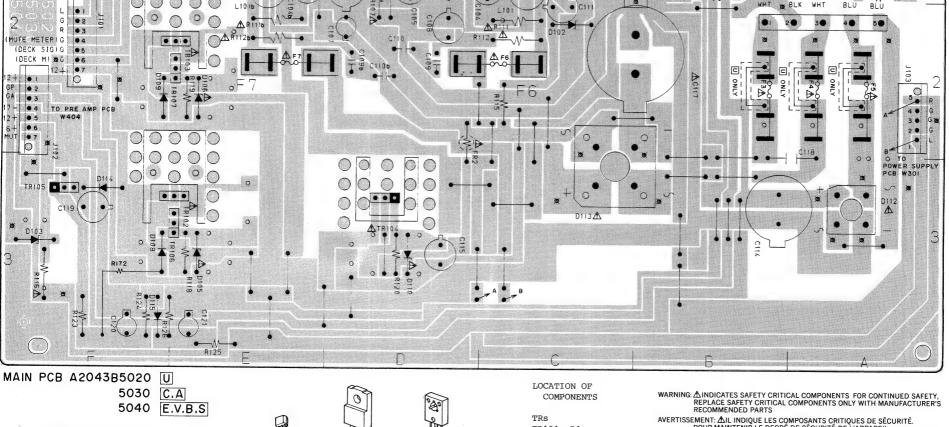
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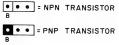
TO POWER SW PCB WW602















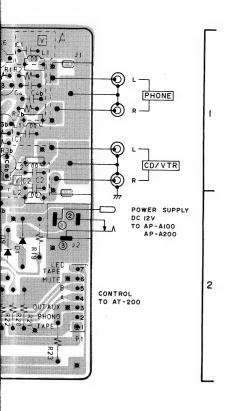


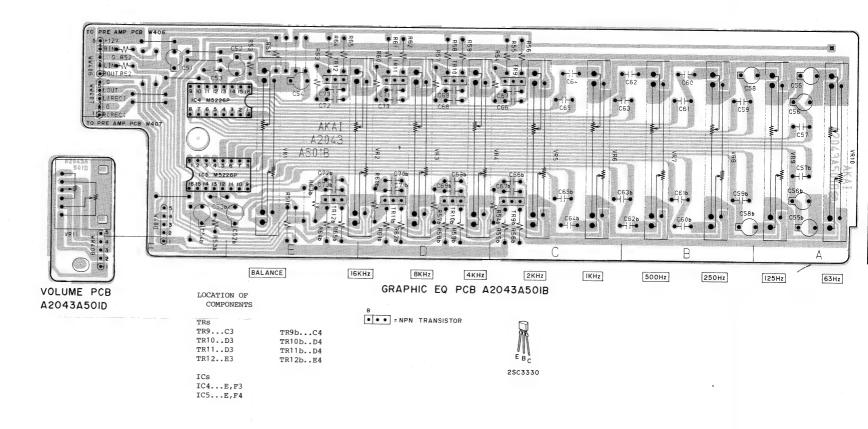
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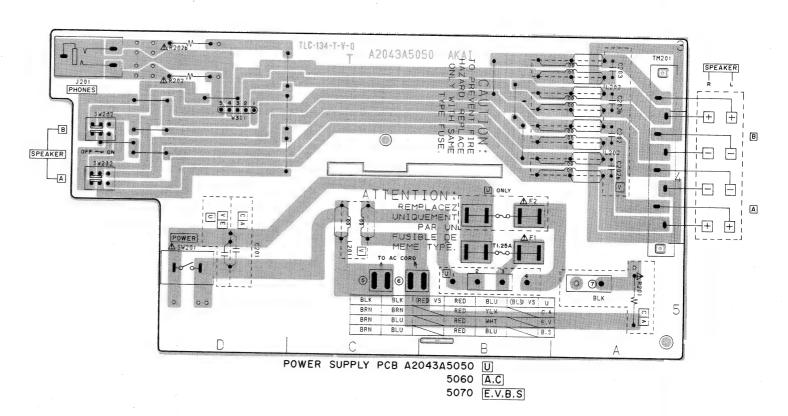
TR102..E3 TR103..E2 TR104..D3 TR105..F3 TR106..E3 TR107..E2

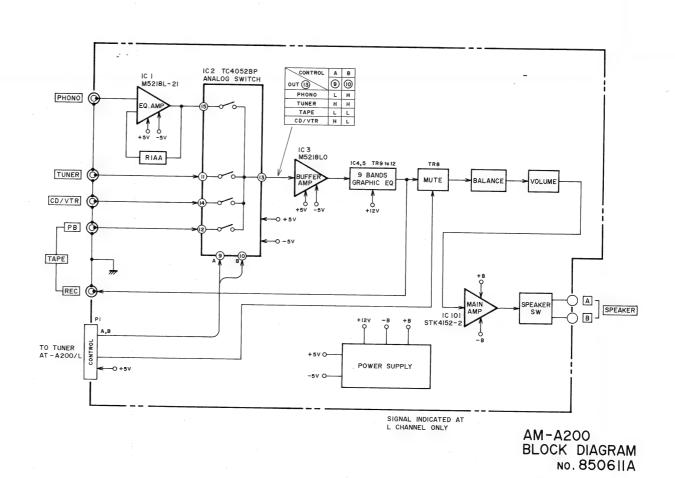
IC101..D1

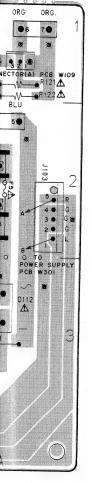
AVERTISSEMENT: ÂIL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT



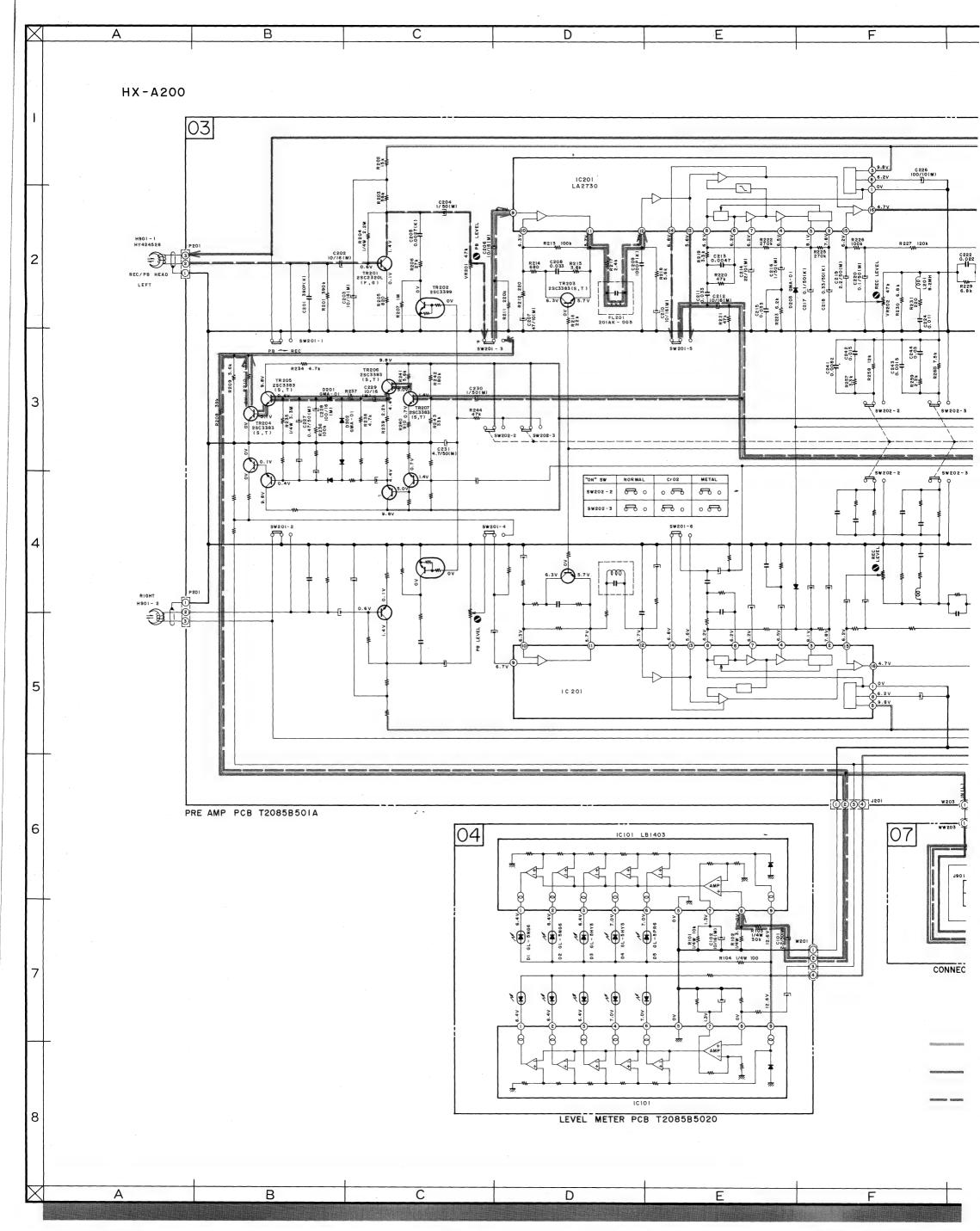


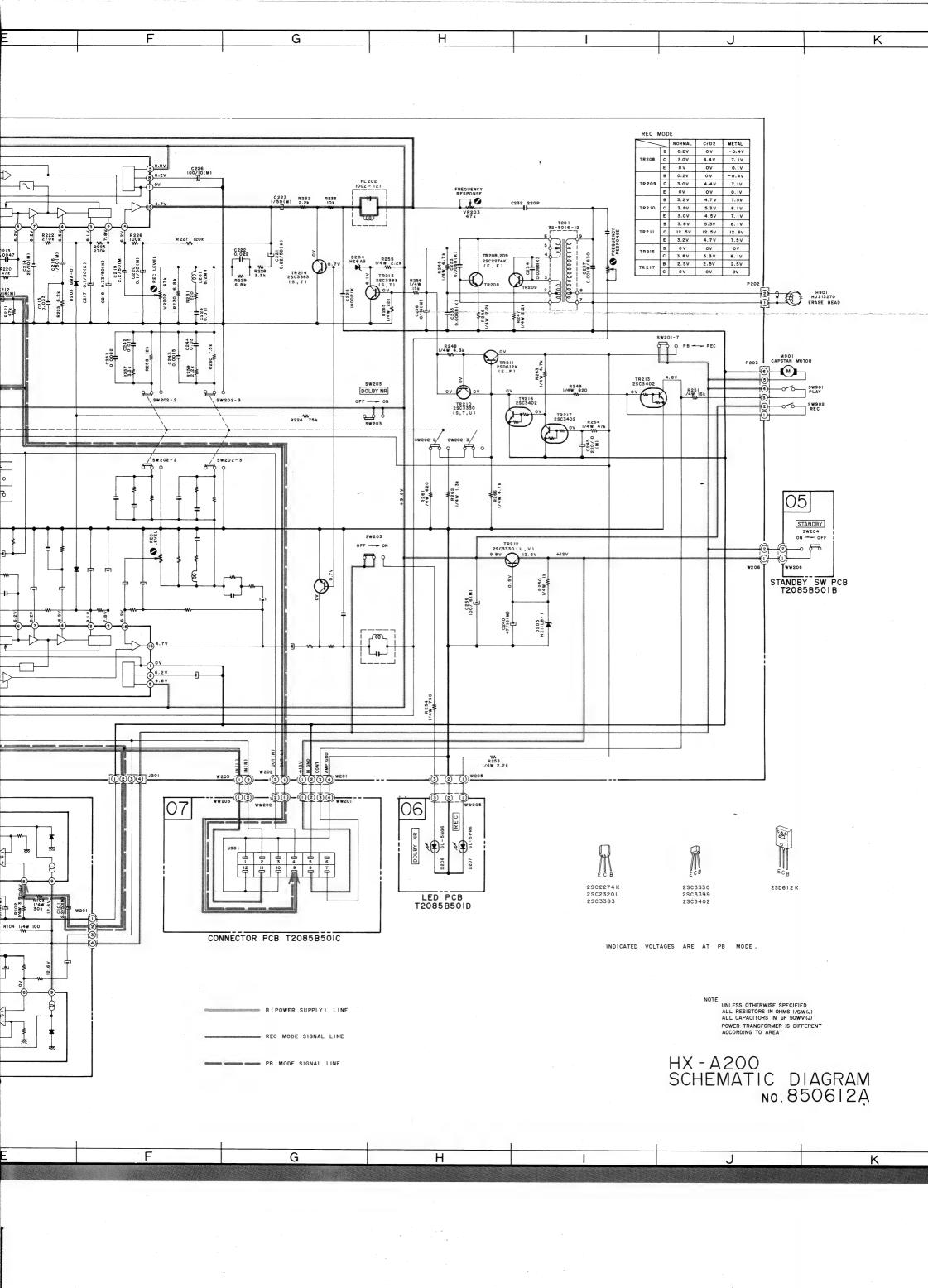


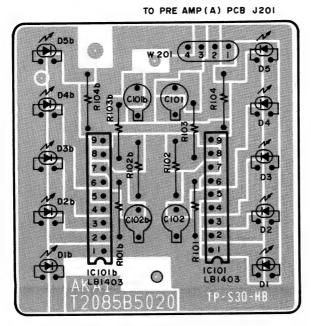




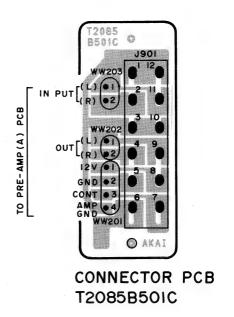
R CONTINUED SAFETY, ITH MANUFACTURER'S DE SÉCURITÉ. PAREIL, B PAR LE FABRICANT

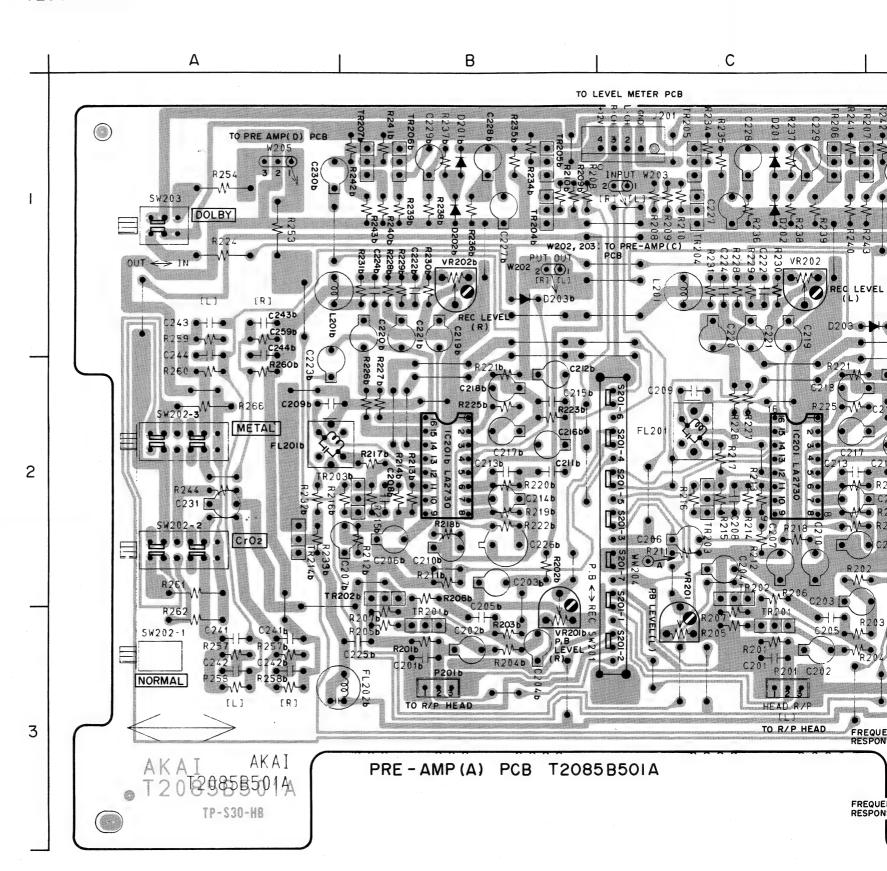






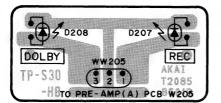
LEVEL METER PCB T2085B5020



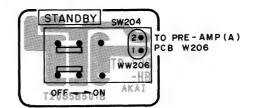




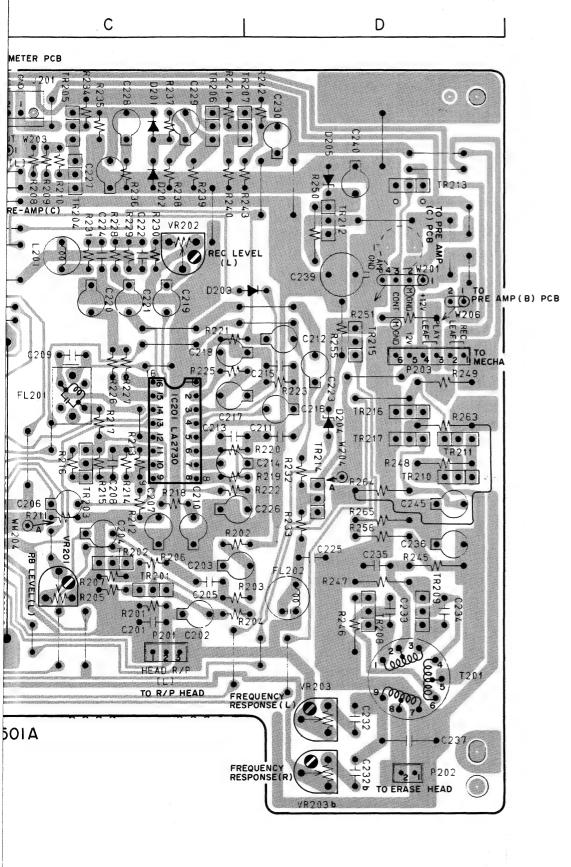




LED PCB T2085B50ID



STANDBY SW PCB T2085B50IB



## • • • = NPN TRANSISTOR

## LOCATION OF COMPONENTS

TR201	.2SC2320L(F,G)
TR202	.2SC3399
TR203 to 207,214,215	.2SC3383(S,T)
TR208,209	.2SC2274K(E,F)
TR210,212	.2SC3330 (S,T,U)
TR211	.2SD612K(E,F)
TR213,216,217	.2SC3402



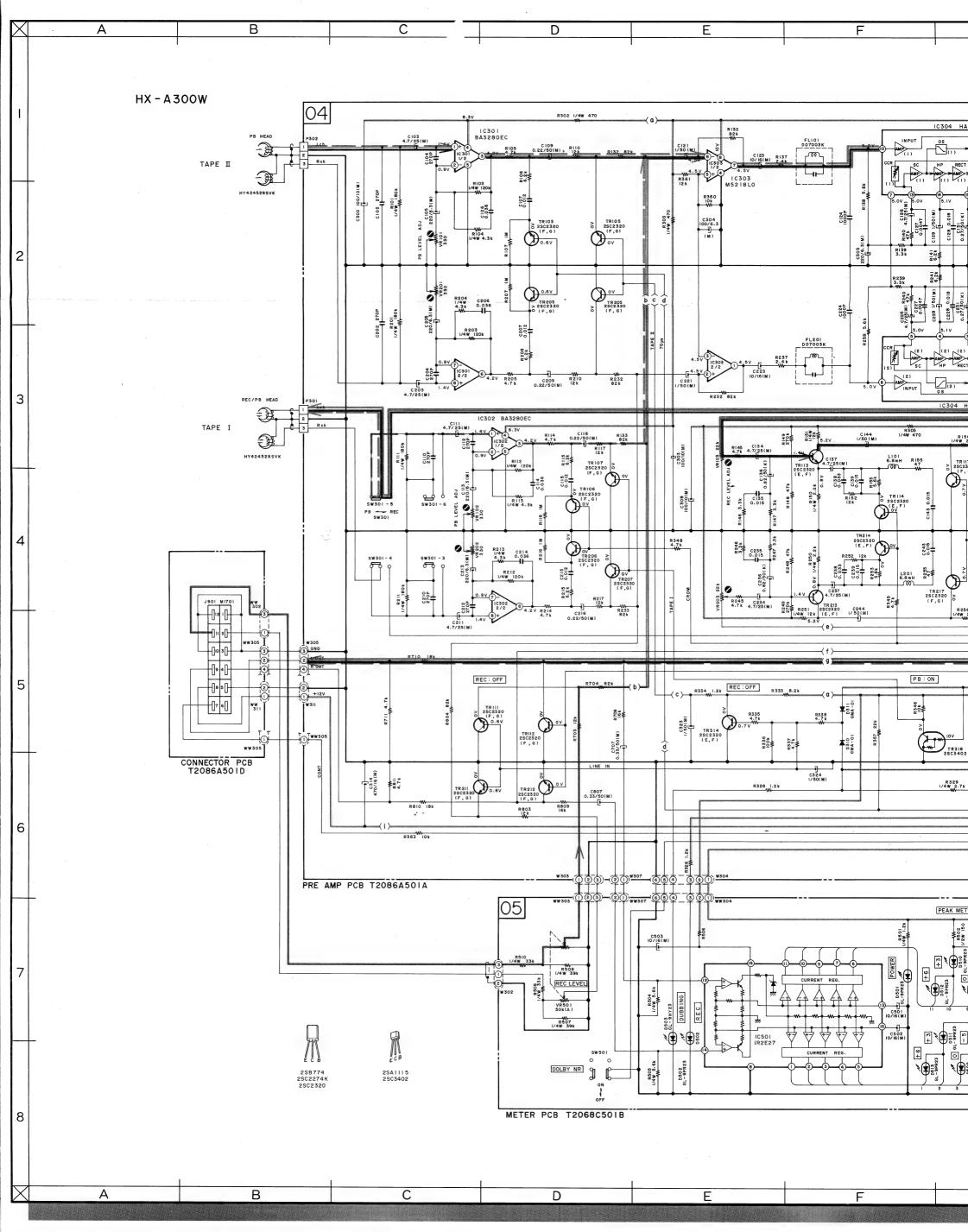


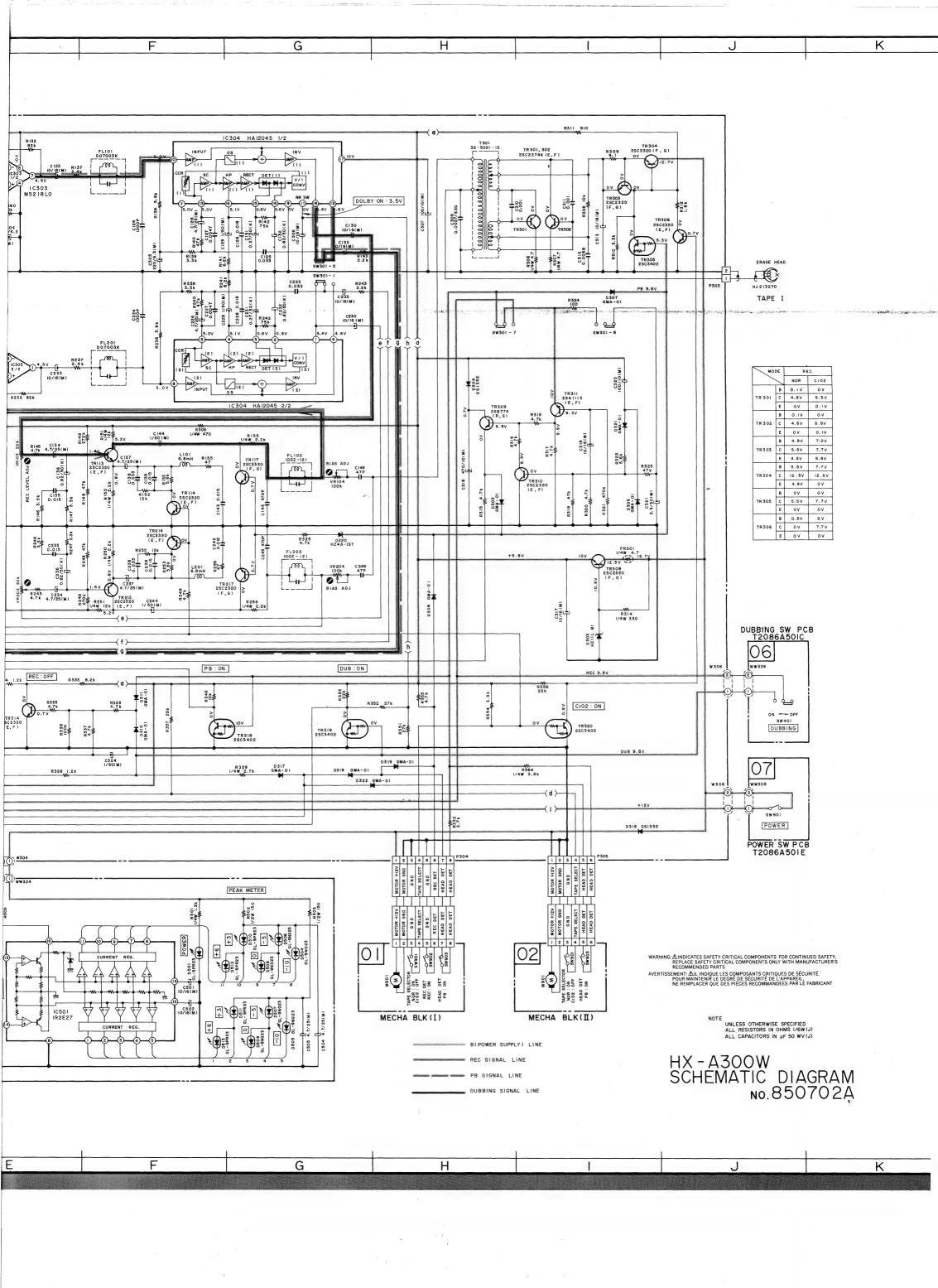


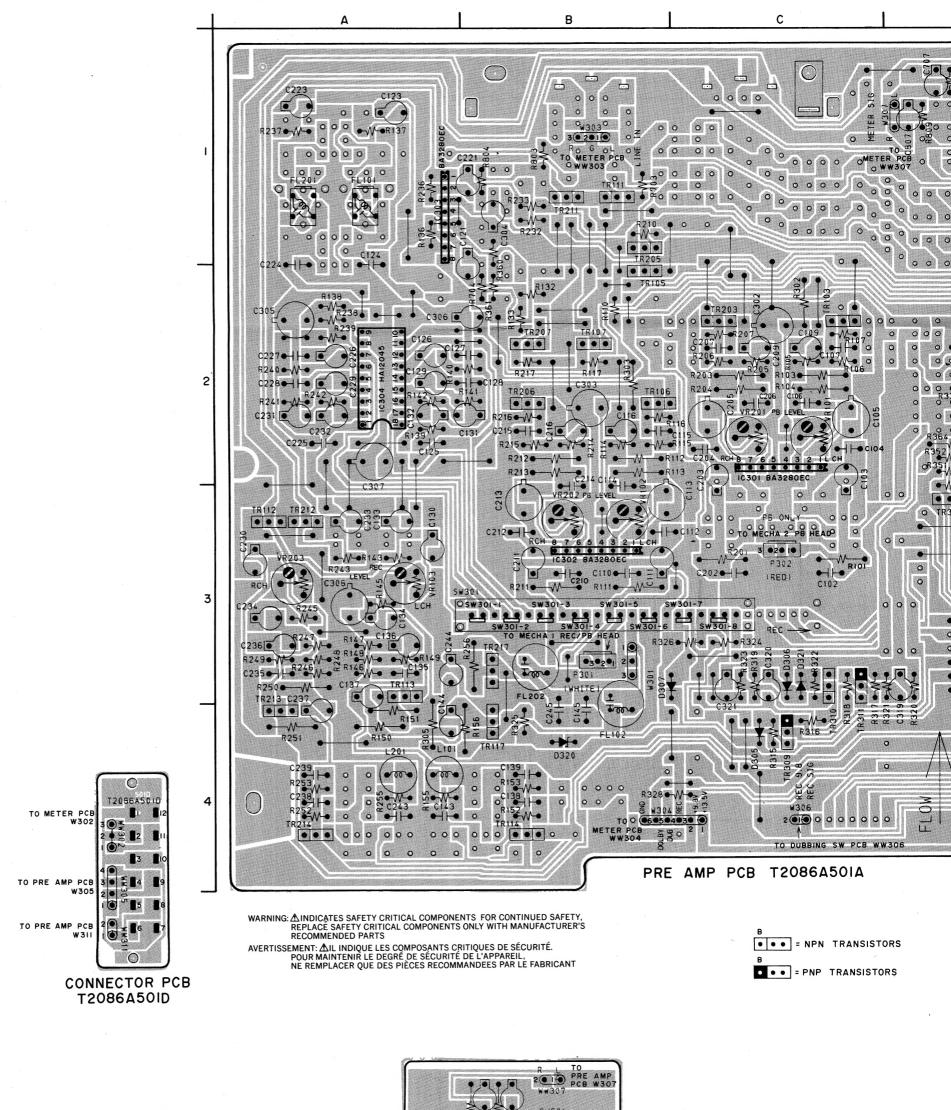
2SC3330 2SC3399 2SC3402

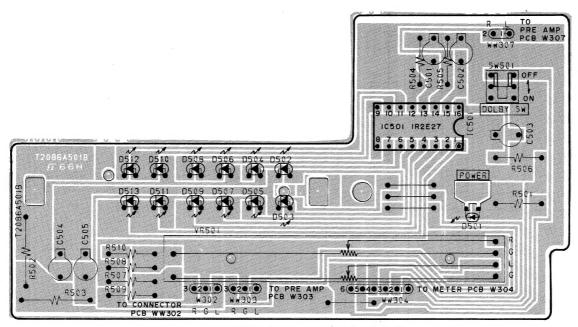


2SD612K

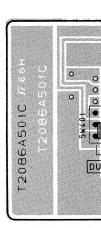




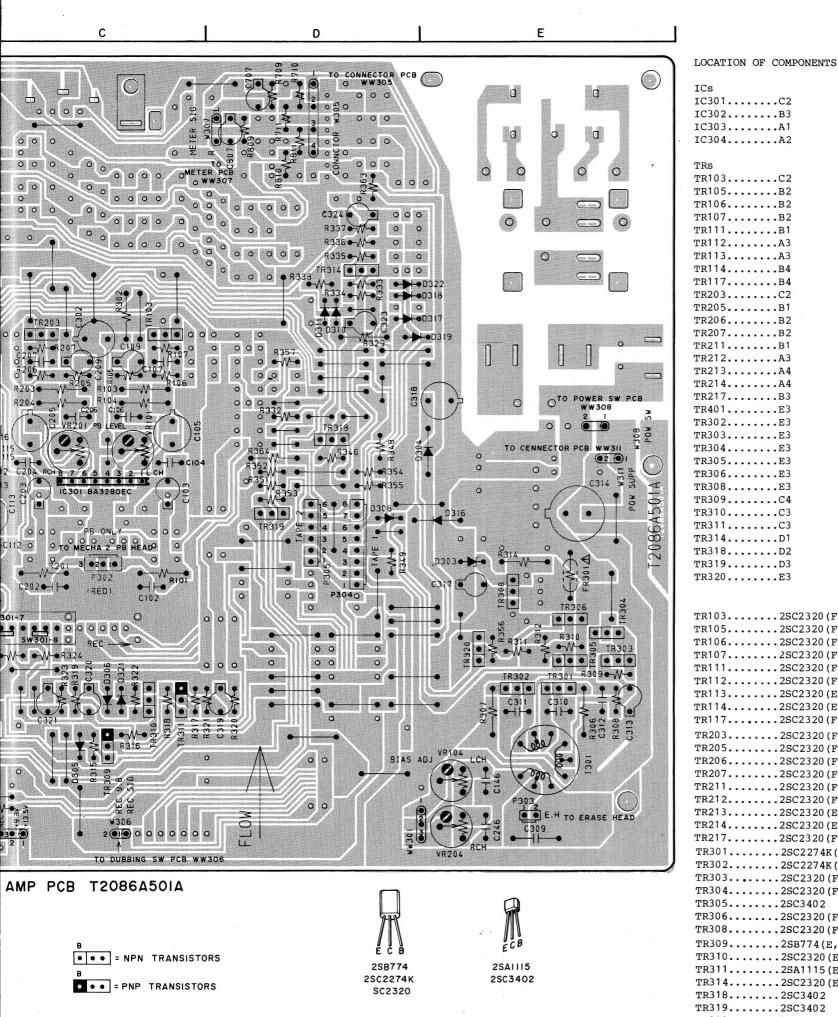


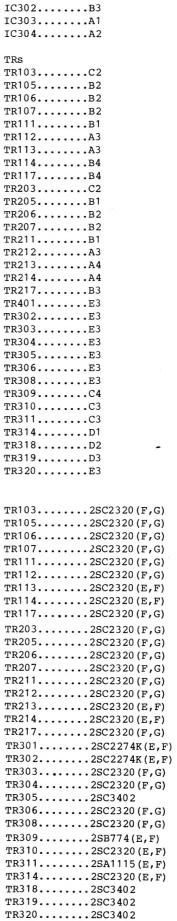


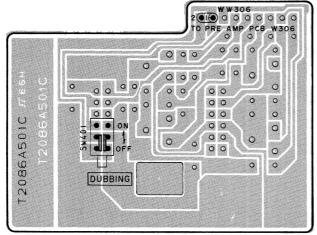
METER PCB T2086A50IB



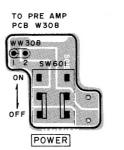
DUBBING I







DUBBING PCB T2086A50IC



POWER SW PCB T2086A50IE

